

WELLESLEY COLLEGE BULLETIN

CALENDAR NUMBER
1933-1934

WELLESLEY, MASSACHUSETTS
NOVEMBER, 1933

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Volume 23

Number 2

DIRECTIONS FOR CORRESPONDENCE

In the list below are the names and addresses of persons to whom inquiries of various types should be sent. The post office address is Wellesley, Massachusetts.

GENERAL POLICY OF THE COLLEGE

The President of Wellesley College

ADMISSION OF UNDERGRADUATES

The Secretary of the Board of Admission

APPLICATIONS FOR READMISSION

The College Recorder

ADMISSION OF GRADUATES

The Dean of Graduate Students

INQUIRIES CONCERNING DORMITORY ROOMS AND NOTICE OF WITHDRAWAL

The Dean of Residence

PAYMENT OF COLLEGE BILLS

The Assistant Treasurer (Checks should be made payable to Wellesley College)

SCHOLARSHIPS AND COOPERATIVE HOUSES

Candidates for Admission—The Secretary of the Board of Admission

Students in College—The Executive Secretary who is Chairman of the Faculty Committee on Scholarships

QUESTIONS RELATING TO ACADEMIC WORK OF STUDENTS

The Dean of the College

QUESTIONS RELATING TO SOCIAL REGULATIONS

The Dean of Residence

REQUESTS FOR TRANSCRIPTS OF RECORDS

The College Recorder

INFORMATION AND RECOMMENDATIONS FOR EDUCATIONAL AND OTHER POSITIONS

The Director of the Personnel Bureau

MISCELLANEOUS INFORMATION

The Executive Secretary

REQUESTS FOR CATALOGUES

The Information Bureau

ALUMNAE AFFAIRS

The Executive Secretary of the Alumnae Association

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1933

1934

1934

1935

JULY

JANUARY

JULY

JANUARY

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MARCH

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OCTOBER

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DECEMBER

JUNE

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Vacations, recesses and holidays appear in *italics*.

CALENDAR

ACADEMIC YEAR 1933-1934

Examinations	September 18-22
Freshman Week	September 18-23
Academic Year begins	Monday, September 25
HOLIDAY, THANKSGIVING DAY	November 30
Recess from 12:30 p.m. Thursday, December 14, 1933, until 12:30 p.m. Wednesday, January 3, 1934.	
Registration closes for all students at 12:30 p.m.	Wednesday, January 3
Examinations	January 30 to February 9
Second semester begins	Monday, February 12
HOLIDAY, WASHINGTON'S BIRTHDAY	February 22
Recess from 12:30 p.m. Friday, March 23, until 12:30 p.m. Tuesday, April 3.	
Registration closes for all students at 12:30 p.m.	Tuesday, April 3
TREE DAY	May 19
HOLIDAY, MEMORIAL DAY	May 30
General Examination for Seniors	June 1
Examinations	June 4 to 13
COMMENCEMENT	Monday, June 18

ACADEMIC YEAR 1934-1935

Examinations	September 17-21
Freshman Week	September 18-22
Registration closes for new students at 10 p.m.	Tuesday, September 18
Registration closes for all other students at 10 p.m.	Friday, September 21
Halls of Residence open for new students at 9 a.m.	Tuesday, September 18
Halls of Residence open for all other students at 2 p.m.	Thursday, September 20
Academic Year begins	Monday, September 24
HOLIDAY, THANKSGIVING DAY	November 29
Recess from 12:30 p.m. Thursday, December 20, 1934, until 12:30 p.m. Wednesday, January 9, 1935.	
Registration closes for all students at 12:30 p.m.	Wednesday, January 9
Examinations	January 29 to February 8
Second semester begins	Monday, February 11
HOLIDAY, WASHINGTON'S BIRTHDAY	February 22
Recess from 12:30 p.m. Friday, March 22, to 12:30 p.m. Tuesday, April 2.	
Registration closes for all students at 12:30 p.m.	Tuesday, April 2
TREE DAY	May 18
HOLIDAY, MEMORIAL DAY	May 30
General Examination for Seniors	May 31
Examinations	June 3 to 12
COMMENCEMENT	Monday, June 17

BOARD OF TRUSTEES

ROBERT GRAY DODGE, M.A., LL.B.	<i>President of the Board</i>	Boston
CANDACE CATHERINE STIMSON, B.S.	<i>Vice President</i>	New York City
GRACE GOODNOW CROCKER, B.A.	<i>Secretary</i>	Cambridge
LOUISE MCCOY NORTH, M.A., Emeritus		Madison, N. J.
CAROLINE HAZARD, M.A., LITT.D., LL.D., Emeritus		Peace Dale, R. I.
PAUL HENRY HANUS, B.S., LL.D.		Cambridge
BELLE SHERWIN, B.S., LL.D.		Washington, D. C.
HUGH WALKER OGDEN, M.A., LL.B.		Longwood, Brookline
SARAH WHITTELSEY WALDEN, PH.D.		New Haven, Conn.
FREDERIC HAINES CURTISS		Boston
WALTER HUNNEWELL, B.A.		Wellesley
BOYNTON MERRILL, B.A., D.D.		West Newton
KENNETH CHARLES MORTON SILLS, M.A., LL.D.		Brunswick, Me.
FRANK GILMAN ALLEN		Norwood
HELEN KNOWLES BONNELL, B.A.		Philadelphia, Pa.
WILLIAM TRUMAN ALDRICH, B.S.		Brookline
BERTHA BAILEY, B.S.		Andover
Alice CHENEY BALTZELL		Wellesley
SARAH LAWRENCE SLATTERY		Boston
HENRY KNOX SHERRILL, D.D.		Boston
HARRIET HINCHLIFF COVERDALE, B.A.		New York City
F. MURRAY FORBES, B.A.		Wellesley
ELLEN FITZ PENDLETON, M.A., LITT.D., LL.D., ex officio	<i>President of Wellesley College</i>	Wellesley
JAMES DEAN, B.A., ex officio	<i>Treasurer of Wellesley College</i>	Brookline

COMMITTEES

EXECUTIVE COMMITTEE

ROBERT GRAY DODGE, <i>Chairman</i>	
CANDACE CATHERINE STIMSON	FREDERIC HAINES CURTISS
GRACE GOODNOW CROCKER	FRANK GILMAN ALLEN
BOYNTON MERRILL	F. MURRAY FORBES
ELLEN FITZ PENDLETON (<i>ex officio</i>)	
JAMES DEAN (<i>ex officio</i>)	

FINANCE COMMITTEE

ROBERT GRAY DODGE	FREDERIC HAINES CURTISS, <i>Chairman</i>
	WALTER HUNNEWELL
	ELLEN FITZ PENDLETON (<i>ex officio</i>)
	JAMES DEAN (<i>ex officio</i>)

COMMITTEE ON BUILDINGS

JAMES DEAN	WALTER HUNNEWELL, <i>Chairman</i>
ELLEN FITZ PENDLETON	FRANK GILMAN ALLEN
SARAH WHITTELSEY WALDEN	WILLIAM TRUMAN ALDRICH

COMMITTEE ON GROUNDS

HUGH WALKER OGDEN	BELLE SHERWIN, <i>Chairman</i>
ELLEN FITZ PENDLETON	Alice Cheney Baltzell
WALTER HUNNEWELL	WILLIAM TRUMAN ALDRICH

COMMITTEE ON EDUCATIONAL POLICY

PAUL HENRY HANUS	ELLEN FITZ PENDLETON, <i>Chairman</i>
SARAH WHITTELSEY WALDEN	BERTHA BAILEY
KENNETH CHARLES MORTON SILLS	HELEN KNOWLES BONNELL

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Trustee Members

FREDERIC HAINES CURTISS	SARAH LAWRENCE SLATTERY
HELEN KNOWLES BONNELL	ELLEN FITZ PENDLETON (<i>ex officio</i>)

Faculty Members

EDITH CHRISTINA JOHNSON	JUlia ELEANOR MOODY
JUDITH BLOW WILLIAMS	LUCY WINSOR KILLOUGH
ANNIE KIMBALL TUELL	ETHEL DANE ROBERTS (<i>ex officio</i>)

PENSION AND INSURANCE BOARD

Trustee Members

HUGH WALKER OGDEN	F. MURRAY FORBES
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Faculty Members

ELIZABETH WHEELER MANWARING	MICHAEL JACOB ZIGLER
ELLEN FITZ PENDLETON (<i>ex officio</i>)	
JAMES DEAN (<i>ex officio</i>)	
CHARLES BOWEN HODGES (<i>ex officio</i>)	

OFFICERS OF INSTRUCTION AND GOVERNMENT¹

MARY ALICE WILLCOX, PH.D.,

Professor of Zoölogy, Emeritus

ANGIE CLARA CHAPIN, M.A.,

Professor of Greek Language and Literature, Emeritus

ALICE VAN VECHTEN BROWN, M.A.,

Professor of Art, Emeritus

ELLEN LOUISA BURRELL, B.A.,

Professor of Pure Mathematics, Emeritus

EDITH SOUTHER TUFTS, M.A., LL.D.,

Dean of Residence, Emeritus

HAMILTON CRAWFORD MACDOUGALL, MUS.D.,

Professor of Music, Emeritus

ELIZABETH KIMBALL KENDALL, M.A., LL.B.,

Professor of History, Emeritus

MARGARETHE MÜLLER,

Professor of German Language and Literature, Emeritus

MARGARET CLAY FERGUSON, PH.D.,

Research Professor of Botany

ELIZA HALL KENDRICK, PH.D.,

Professor of Biblical History, Emeritus

ELIZABETH FLORETTE FISHER, B.S.,

Professor of Geology and Geography, Emeritus

*AMY MORRIS HOMANS, M.A., PED.D.,

Professor of Hygiene, Emeritus

MARGARET HASTINGS JACKSON, M.A.,

Professor of Italian, Emeritus

MALVINA BENNETT, M.A.,

Professor of Reading and Speaking, Emeritus

ANNA JANE McKEAG, PH.D., LL.D., ED.D.,

Professor of the History and Principles of Education, Emeritus

EVA CHANDLER, B.A.,

Professor of Mathematics, Emeritus

MARY SOPHIA CASE, M.A.,

Professor of Philosophy, Emeritus

VIDA DUTTON SCUDDER, M.A., L.H.D.,

Professor of English Literature, Emeritus

KATHARINE MAY EDWARDS, PH.D.,

Professor of Greek and Comparative Philology, Emeritus

¹ The officers of instruction and government, exclusive of the retired members, are arranged in the following order: professors, associate professors, assistant professors; instructors; assistants; lecturers.

* Died October 29, 1933.

CHARLOTTE ALMIRA BRAGG, B.S.,	<i>Professor of Chemistry, Emeritus</i>
MARGARET POLLOCK SHERWOOD, PH.D., L.H.D.,	<i>Professor of English Literature, Emeritus</i>
HELEN ABBOT MERRILL, PH.D.,	<i>Professor of Mathematics, Emeritus</i>
ALICE WALTON, PH.D.,	<i>Professor of Latin and Archaeology, Emeritus</i>
ALICE VINTON WAITE, M.A.,	<i>Professor of English Language and Literature and Dean, Emeritus</i>
CLARENCE GRANT HAMILTON, M.A.,	<i>Professor of Music, Emeritus</i>
LAURA EMMA LOCKWOOD, PH.D.,	<i>Professor of English Language and Literature, Emeritus</i>
CHARLES LOWELL YOUNG, B.A.,	<i>Professor of American Literature, Emeritus</i>
WILLIAM SKARSTROM, M.D., M.P.E.,	<i>Professor of Hygiene and Physical Education, Emeritus</i>

ELLEN FITZ PENDLETON, M.A., LITT.D., LL.D.,	<i>President on the Alice Freeman Palmer Memorial Foundation</i>
SOPHIE CHANTAL HART, M.A.,	<i>Class of 1898 Professor of Rhetoric and Composition</i>
ARTHUR ORLO NORTON, M.A.,	<i>Professor of the History and Principles of Education</i>
LOUISE SHERWOOD McDOWELL ² , PH.D.,	<i>Class of 1898 Professor of Physics</i>
MARIAN ELIZABETH HUBBARD, B.S.,	<i>Professor of Zoölogy</i>
*ELEANOR ACHESON McCULLOCH GAMBLE, PH.D.,	<i>Professor of Psychology and Director of the Psychology Laboratory</i>
MARTHA HALE SHACKFORD ² , PH.D.,	<i>Class of 1914 Professor of English Literature</i>
CAROLINE REBECCA FLETCHER, M.A.,	<i>Professor of Latin</i>
JULIA SWIFT ORVIS, PH.D.,	<i>Alice Freeman Palmer Professor of History</i>

²Absent on Sabbatical leave.

*Died August 30, 1933.

NATALIE WIPPLINGER, PH.D.,	<i>Professor of German</i>
GRACE EVANGELINE DAVIS, M.A.,	<i>Associate Professor of Physics</i>
EDNA VIRGINIA MOFFETT ² , PH.D.,	<i>Professor of History</i>
AGNES FRANCES PERKINS, M.A., M.S.,	<i>Professor of Rhetoric and Composition</i>
ELISABETH HODDER, PH.D.,	<i>Class of 1915 Professor of History</i>
LAETITIA MORRIS SNOW, PH.D.,	<i>Susan M. Hallowell Professor of Botany</i>
JOSEPHINE HARDING BATCHELDER, M.A.,	<i>Associate Professor of Rhetoric and Composition</i>
CLARA ELIZA SMITH ² , PH.D.,	<i>Helen Day Gould Professor of Mathematics</i>
EUGENE CLARENCE HOWE, PH.D.,	<i>Professor of Hygiene and Physical Education</i>
JOHN CHARLES DUNCAN, PH.D.,	<i>Professor of Astronomy and Director of the Whitin Observatory</i>
JULIA ELEANOR MOODY, PH.D.,	<i>Professor of Zoölogy</i>
Alice Ida Perry Wood, PH.D.,	<i>Associate Professor of English Literature, and Director of Personnel Bureau</i>
MARY CAMPBELL BLISS, PH.D.,	<i>Associate Professor of Botany</i>
ALICE HUNTINGTON BUSHEE, M.A.,	<i>Helen J. Sanborn Professor of Spanish</i>
EDWARD ELY CURTIS, PH.D.,	<i>Professor of American History</i>
ELIZABETH WHEELER MANWARING, PH.D.,	<i>Class of 1902 Professor of Rhetoric and Composition</i>
HELEN SOMERSBY FRENCH, PH.D.,	<i>Charlotte Fitch Roberts Professor of Chemistry</i>
MURIEL STREIBERT CURTIS, B.A., B.D.,	<i>Associate Professor of Biblical History</i>
ALFRED DWIGHT SHEFFIELD, M.A.,	<i>Associate Professor of Rhetoric and Composition</i>
LAURA HIBBARD LOOMIS, PH.D.,	<i>Katharine Lee Bates Professor of English Literature</i>

² Absent on Sabbatical leave.

MARY JEAN LANIER, PH.D.,	<i>Professor of Geology and Geography</i>
OLIVE DUTCHER, M.A., B.D.,	<i>John Stewart Kennedy Professor of Biblical History</i>
MABEL MINERVA YOUNG, PH.D.,	<i>Lewis Atterbury Stimson Professor of Mathematics</i>
ALICE MARIA OTTLEY ⁶ , PH.D.,	<i>Associate Professor of Botany, Curator of Herbarium and Associate Director of Botanic Gardens</i>
MYRTILLA AVERY, PH.D.,	<i>Clara Bertram Kimball Professor of Art and Director of Art Museum</i>
HOWARD EDWARD PULLING, PH.D.,	<i>Professor of Botany</i>
ANNIE KIMBALL TUELL, PH.D.,	<i>Professor of English Literature</i>
ANNA BERTHA MILLER, PH.D.,	<i>Associate Professor of Latin</i>
LENNIE PHOEBE COPELAND, PH.D.,	<i>Associate Professor of Mathematics</i>
LOUISE PETTIBONE SMITH, PH.D.,	<i>Associate Professor of Biblical History</i>
SEAL THOMPSON, M.A.,	<i>Associate Professor of Biblical History</i>
JUDITH BLOW WILLIAMS, PH.D.,	<i>Associate Professor of History</i>
LUCY WILSON, PH.D.,	<i>Associate Professor of Physics</i>
HELEN SARD HUGHES, PH.D.,	<i>Professor of English Literature, and Dean of Graduate Students</i>
BARNETTE MILLER, PH.D.,	<i>Associate Professor of History</i>
ELIZABETH DONNAN, B.A.,	<i>Katharine Coman Professor of Economics and Sociology</i>
MARY AMERMAN GRIGGS, PH.D.,	<i>Associate Professor of Chemistry</i>
EDITH MARGARET SMAILL ⁶ , A.A.,	<i>Assistant Professor of Speech</i>
HELEN ISABEL DAVIS, B.A.,	<i>Associate Professor of Botany and Director of Botanic Gardens</i>
MARGARET TERRELL PARKER, M.A.,	<i>Associate Professor of Geology and Geography</i>

⁶ Absent on leave for the second semester.

FACULTY

HENRY RAYMOND MUSSEY, PH.D.,	<i>A. Barton Hepburn Professor of Economics</i>
GORDON BOIT WELLMAN, TH.D.,	<i>Associate Professor of Biblical History</i>
BERTHA MONICA STEARNS, M.A.,	<i>Associate Professor of English Literature</i>
RUTH ELVIRA CLARK, LITT.D.,	<i>Professor of French</i>
RUTH JOHNSTIN, PH.D.,	<i>Associate Professor of Chemistry</i>
MARGUERITE MESPOULET, AGRÉGÉE DE L'UNIVERSITÉ,	<i>Professor of French</i>
ADA MAY COE, M.A.,	<i>Assistant Professor of Spanish</i>
THOMAS HAYES PROCTER, PH.D.,	<i>Professor of Philosophy</i>
MICHAEL JACOB ZIGLER, PH.D.,	<i>Associate Professor of Psychology</i>
MARGARET ALGER HAYDEN, PH.D.,	<i>Associate Professor of Zoölogy</i>
KATHARINE CANBY BALDERSTON, PH.D.,	<i>Associate Professor of English Literature</i>
LOUISE OVERACKER, PH.D.,	<i>Associate Professor of Political Science on the Elizabeth Kimball Kendall Foundation</i>
DOROTHY WARNER DENNIS, B.A., DIPL. E.U.,	<i>Assistant Professor of French, and Head of Maison Crawford</i>
LAWRENCE SMITH, M.A.,	<i>Assistant Professor of Economics and Sociology</i>
EDITH CHRISTINA JOHNSON, PH.D.,	<i>Associate Professor of Rhetoric and Composition, and Director of Publicity</i>
HOWARD HINNERS, B.A.,	<i>Caroline Hazard Professor of Music</i>
MARION ELIZABETH STARK, PH.D.,	<i>Assistant Professor of Mathematics</i>
RUTH ELLIOTT, PH.D.,	<i>Mary Hemenway Professor of Hygiene and Physical Education and Director of the Department</i>
MARGUERITE JULIETTE BRÉCHAILLE ³ , AGRÉGÉE DE L'UNIVERSITÉ,	<i>Assistant Professor of French</i>

³ Absent on leave.

HELEN HULL LAW, PH.D.,	<i>Associate Professor of Greek and Latin on the Ellen A. Kendall Foundation</i>
EDITH WINIFRED MOSES, M.A.,	<i>Assistant Professor of Speech</i>
HELEN WARTON KAAN, PH.D.,	<i>Assistant Professor of Zoölogy</i>
CHARLOTTE GENEVIEVE MACEWAN, M.S.,	<i>Assistant Professor of Hygiene and Physical Education</i>
HELEN JOY SLEEPER, M.A., MUS.B.,	<i>Assistant Professor of Music</i>
GRACE ELIZABETH HOWARD, PH.D.,	<i>Assistant Professor of Botany and Assistant Curator of Herbarium</i>
KATY BOYD GEORGE, M.A.,	<i>Assistant Professor of Biblical History</i>
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Alice Hall Armstrong, Ph.D.,	<i>Assistant Professor of Physics</i>

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MARIANNE THALMANN, PH.D.,	<i>Associate Professor of German</i>

⁴ Absent on leave for the first semester.⁵ Absent on leave for the second semester.

LOUIS CAZAMIAN, LL.D., L.H.D.,	
MARY WHITON CALKINS	<i>Visiting Professor of English Literature</i>
BLANCHE FRANCIS BROCKLEBANK,	<i>Instructor in Pianoforte</i>
MARGARET JOHNSON,	<i>Instructor in Hygiene and Physical Education</i>
HELEN STILLWELL THOMAS ⁷ , M.A.,	<i>Instructor in Botany</i>
FANNY GARRISON, B.A.,	<i>Instructor in Hygiene and Physical Education</i>
MARY FISHER DEKRUIF, M.D.,	<i>Instructor in Hygiene and Physical Education, and Health Officer</i>
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JACQUES HOFFMANN,	<i>Instructor in Violin</i>
ANGELINE LA PIANA, DOTTORE IN LETTERE	<i>Instructor in Italian</i>
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KATHARINE FULLER WELLS, B.S.,	<i>Instructor in Hygiene and Physical Education</i>

⁷ Appointed for the second semester only.

JULIA WILLIAMS JAMES, M.A.,	<i>Instructor in Botany</i>
MARY ELIZABETH POWELL, M.S.,	<i>Instructor in Hygiene and Physical Education</i>
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JEAN HELEN HARRIS, B.A.,	<i>Instructor in Hygiene and Physical Education</i>
ELIZABETH SANDERS HOBBS, D.SC.,	<i>Instructor in Zoölogy</i>
Alice Caroline Renée Coléno, agrégée de l'université,	<i>Instructor in French</i>
ALICE MARGUERITE MARIE MALBOT, LIC. ÈS LET.,	<i>Instructor in French</i>
JOHANNA ELISABETH VOLBEHR,	<i>Instructor in German</i>
HELEN GERTRUDE RUSSELL, PH.D.,	<i>Instructor in Mathematics</i>
CÉCILE DE BANKE,	<i>Instructor in Speech</i>
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ELSIE VAN DYCK DE WITT, M.A.,	<i>Instructor in History</i>
EDWARD BARRY GREENE, B.A.,	<i>Instructor in Music and Director of the Choir</i>
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MARJORIE JANE LEVY, B.A.,	<i>Assistant in Astronomy</i>
FRANCES DUNBAR NICHOLS, M.A.,	<i>Assistant in Education</i>
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ERMINIE GREENE HUNTRESS, B.A., B.D.,	<i>Assistant in Biblical History</i>
BARBARA HUNT, M.A.,	<i>Assistant in Botany</i>
MARIE MARCIA MAYFIELD, B.DES.,	<i>Assistant in Art</i>

⁷ Appointed for the second semester only.

AUDRA JULIA ALBRECHT, B.A.,	<i>Assistant in Chemistry</i>
MARGUERITE NAPS, B.A.,	<i>Assistant in Chemistry</i>
DOROTHY JANE PERKINS, B.A.,	<i>Assistant in Chemistry</i>
ELIZA NEWKIRK ROGERS ⁷ , M.A.,	<i>Lecturer in the History of Architecture</i>
HARRIET BOYD HAWES, M.A., L.H.D.,	<i>Lecturer in Pre-Christian Art</i>
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ABIGAIL ADAMS ELIOT, B.A., ED.D.,	<i>Lecturer on Nursery School Education</i>
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RUTH BURR, M.D.,	<i>Lecturer on Mental Hygiene</i>
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WELLESLEY COLLEGE
WELLESLEY, MASSACHUSETTS

FOUNDATION AND PURPOSE

WELLESLEY COLLEGE was established for the purpose of furnishing to young women who desire to obtain a liberal education such advantages and facilities as are enjoyed in institutions of the highest grade. The first building of the College, erected and equipped under the supervision and through the personal means of the founder, was opened to students in 1875, with the announced purpose "of giving to young women opportunities for education equivalent to those usually provided in colleges for young men." Throughout his work the founder aimed to put into visible form his ideal of the higher education for women, "the supreme development and unfolding of every power and faculty."

By the charter, granted by the Commonwealth of Massachusetts, "the corporation of Wellesley College is authorized to grant such honorary testimonials, and confer such honors, degrees, and diplomas, as are granted or conferred by any University, College, or Seminary of learning in this Commonwealth; and the diplomas so granted shall entitle the possessors to the immunities and privileges allowed by usage or statute to the possessors of like diplomas from any University, College, or Seminary of learning in this Commonwealth."

In accordance with the spirit of the founder, the College is undenominational, but distinctively Christian in its influence, discipline, and instruction.

The members of the College meet daily for morning prayers in the beautiful chapel presented in 1899 by Miss Elizabeth G. Houghton and Mr. Clement S. Houghton as a memorial to their father, Mr. William S. Houghton, a trustee of the College from 1880 to his death in 1894. Services on Sunday are conducted in this chapel by preachers of different denominations. At all these services and at vespers on Sunday, the singing is led by a trained choir of students under the direction of the department of music.

The Wellesley College Christian Association is organized to foster religious life, and interest in social reforms and in home and foreign service.

The department of Biblical History affords the systematic study of the Bible required of all students.

ADMISSION

Students may qualify for admission to Wellesley College as candidates for the bachelor of arts degree either as members of the freshman class on the presentation of satisfactory entrance credentials, including school records and entrance examinations, or as students with advanced standing with records of accomplishment in other colleges. Since the size of the student body is limited to about fifteen hundred students, candidates in both groups are chosen very carefully in order of the excellence of their credentials including testimonials concerning health, character, and scholarship. A student is not admitted, except in very unusual cases, who is not at least sixteen years of age.

If a student is unable to meet the academic standard prescribed in college or if she does not conduct herself in accordance with the spirit and the letter of the regulations which are necessitated by the interests of a community of students and faculty organized for purposes of study, she may be required to withdraw from the College.

APPLICATION FOR ADMISSION

Forms of application will be furnished on request. An application fee of \$10 is required of all applicants and no registration is recorded until the fee is received. If paid *before* March 15, 1931, the application fee of \$10 will be credited on the first tuition bill; if paid *after* March 15, 1931, the application fee will not be credited on any bill. If the candidate cancels her registration or fails to qualify for admission, the fee is not refunded but it may be transferred to apply to a later year if the request for the transfer is received before November 1 of the year for which the candidate was registered to enter college. If a candidate's credentials are not received by July 15 and no request to transfer the application is filed by November 1, the name of the candidate will be automatically dropped from the list.

The Board of Admission cannot usually consider applications received later than May 1 of the year in which admission is sought. The date of application is used as a basis for assigning rooms to accepted candidates. It is not considered in the selection of candidates.

All communications concerning admission should be addressed to the Secretary of the Board of Admission, Wellesley College, Wellesley, Massachusetts.

HEALTH CERTIFICATES

A report from the applicant's physician showing that she is organizationally sound and in good health, together with a certificate of recent vaccination, must be filed with the Secretary of the Board of Admission

before June 1 of the year in which admission is sought. Blank forms for these health reports will be sent to each registered applicant in the year previous to her proposed entrance to college. Before a candidate is formally accepted she is given a thorough physical examination in the opening week of college under the direction of the college medical staff and the department of physical education. The College reserves the right to reject any candidate who, in the opinion of the college physicians, is not fitted for work in the college community.

ADMISSION TO THE FRESHMAN CLASS

Through its admission procedure, the College tries to select students with good intellectual ability, adequate preparation for further study, genuine interest in some of the lines of study offered at Wellesley College, and a purpose which will give incentive to steady work. In discovering such students, the Board of Admission studies such criteria as school records and recommendations, entrance examinations, psychological or scholastic aptitude tests, information from the candidate concerning her interests and plans for study. An attempt is made to evaluate all these records in the selection of members of the freshman class.

SCHOOL RECORDS

Complete records of a student's work in secondary school are required. Blanks for the preliminary records are sent to school principals in the spring, a year in advance of the student's completion of preparatory work. Blanks for supplementary records are sent in the spring of the year of final preparation for college. The Board of Admission examines these records carefully to discover evidence of intellectual ability, growth of power, interest in special fields of study, and steadiness of application.

The school record must be supplemented by statements from the school principals, concerning the special abilities and interests of the student, power of sustained work, good health habits, integrity, sense of responsibility, co-operativeness, initiative and self-reliance in work and in social action. The College wishes to be informed of circumstances which may have interfered with a student's work and of special honors and accomplishments during the student's secondary school course.

ADMISSION PLANS

There are four possible plans of admission to Wellesley College. A description of each plan follows.

PLAN A.—This plan calls for examinations in all subjects offered for admission credit, either the examinations of the College Entrance Ex-

amination Board, Regents examinations of New York State or, for foreign students, the matriculation examinations of a foreign university. Plan A is used by less than a third of the candidates for admission to Wellesley College.

Examinations under this plan may be taken in two or more successive years. Students are advised to take final examinations in subjects which they expect to continue in College. Either the comprehensive or the ordinary examinations of the College Entrance Examination Board may be used.

Entrance examinations in Biblical History, Harmony, Music Appreciation and Applied Music will be conducted by Wellesley College. Applications for these examinations must be made to the Secretary of the Board of Admission of Wellesley College by May 1.

For detailed information concerning the application for the examinations of the College Entrance Examination Board candidates should consult the statement on pages 31-32 under the caption "Examinations of the College Entrance Examination Board."

PLAN B.—Under Plan B four examinations of the College Entrance Examination Board are considered in connection with the school record to determine a candidate's admission. One examination subject must be chosen from each of the following groups: (1) English or History; (2) a foreign language; (3) Mathematics, Physics or Chemistry; (4) a fourth subject designated by the applicant from the list of subjects offered for admission in which the College Entrance Examination Board offers examinations. At least two examinations must cover more than two units of work.

In History and Science the examination is based on one unit only. In Mathematics candidates may take either Mathematics A (Algebra), Mathematics C (Plane Geometry), Mathematics Cp. 3 (Algebra and Plane Geometry), or Mathematics H (Trigonometry and Solid Geometry). In Latin if students have passed a preliminary examination covering three units of Latin, they may take Latin H or K (fourth year Latin). In all subjects candidates are expected to take the most advanced examination for which their preparation has fitted them.

The Board of Admission must give its permission, based upon the evidence submitted by the school, before the applicant may take the examinations. The comprehensive examinations set by the College Entrance Examination Board are judged by readers appointed by this Board, and are forwarded to the College for final decision by the Board of Admission.

Under Plan B the candidate, if admitted to college, will be admitted free from all conditions. Failure to meet completely the standard in either kind of evidence required will not necessarily involve rejection of

the applicant; the Board may accept unusual excellence in one part of the credentials submitted as offsetting unsatisfactory evidence or even failure in another part. If the candidate fails of admission she may be permitted to take examinations under Plan A or Plan B the following June.

The four examinations must be taken in one examination season in June in the examination centres provided by the College Entrance Examination Board. Full details about applying for these examinations will be found on pages 31-32 under the caption "Examinations of the College Entrance Examination Board."

PLAN C.—Candidates under this plan may take at the end of the junior year the Scholastic Aptitude Test and two examinations (not English) from the groups now required by Plan B. On the basis of the results of these examinations, the Scholastic Aptitude Test, school records, and recommendations from the principal, provisional acceptance may be given. Final acceptance will depend upon the results of the remaining two examinations which are to be taken at the end of the senior year and upon the school records of that year.

The examinations used in this plan are those given by the College Entrance Examination Board. The results of the examinations are reported to the College instead of to the candidate as in Plan B.

A candidate who is not provisionally accepted at the end of the junior year, may apply for admission by examinations to be taken in the senior year under any College Board examination plan acceptable to the College.

Candidates wishing to enter by Plan C should make application to the Board of Admission on or before May 1 of their junior year in secondary school and permission to take examinations under Plan C must be obtained from the Board of Admission.

PLAN D.—Admission under this plan is on the basis of the school records and recommendations and the Scholastic Aptitude Test. To be considered for admission by Plan D a candidate must have ranked, during the last two years of her school course, among the highest seventh of a graduating class containing at least seven students. She must have covered the equivalent of a standard four-year high school course which satisfies in general the requirements for approval under Plan B. Unqualified recommendation of the candidate by her school principal or headmistress is essential.

Since all admission is on a competitive basis, candidates for entrance by Plan D cannot be guaranteed admission. They may become eligible for admission subject to the same conditions as candidates applying for entrance by examination. As heretofore, final selection of all candidates is made by the Board of Admission on the consideration of all evidence, both personal and academic.

Candidates from any school may be considered for admission by this plan. The College, however, will feel free to consider the geographical distribution of students in the entering class and the proportional representation from public and private schools.

Regulations governing the administration of Plan D:

1. Candidates are eligible to apply for admission without examination other than the Scholastic Aptitude Test, only in the year in which they first graduate from a secondary school.
2. Candidates must register with the College Entrance Examination Board to take the Scholastic Aptitude Test.
3. Applications should state specifically:
 - (a) The number of pupils in the graduating class.
 - (b) The applicant's exact numerical rank in the class.
4. Applications must be filed in the office of the Secretary of the Board of Admission on or before May first in the year in which the candidate first graduates from a secondary school.

SCHOLASTIC APTITUDE TEST

The Scholastic Aptitude Test of the College Entrance Examination Board is required of all candidates for admission and students are now advised to take the Scholastic Aptitude Test at the end of the junior year in secondary school.

EXAMINATIONS OF THE COLLEGE ENTRANCE EXAMINATION BOARD

JUNE EXAMINATIONS.—The College Entrance Examination Board will hold examinations in June 1934 at nearly 400 points in the United States and abroad.

A list of places at which examinations will be held will be published about March 1, 1934. Requests that the examinations be held at particular points should be transmitted to the Secretary of the College Entrance Examination Board not later than February 1, 1934.

Detailed definitions of the requirements in all examination subjects are given in a circular of information published annually about December 1. Upon request to the Secretary of the College Entrance Examination Board a single copy of this document will be sent to any teacher without charge. In general, there will be a charge of twenty-five cents, which may be remitted in postage.

All candidates wishing to take these examinations must make application by mail to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York City. Blank forms for this purpose will be mailed by the Secretary of the College Entrance Examination Board to any teacher or candidate upon request by mail.

The applications and fees of all candidates who wish to take the ex-

aminations in June 1934 should reach the Secretary of the College Entrance Examination Board not later than the dates specified in the following schedule:

FOR EXAMINATION CENTRES:

In the United States east of the Mississippi River or on the Mississippi	May 28, 1934
In the United States west of the Mississippi River or in Canada	May 21, 1934
Outside of the United States and Canada, except in Asia.	May 7, 1934
In China or elsewhere in the Orient	April 23, 1934

Every application for examination which reaches the Secretary of the Board on or before the scheduled date should be accompanied by an examination fee of \$10.00, which may be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

An application which reaches the Secretary later than the scheduled date will be accepted only upon payment of \$5.00 in addition to the regular examination fee.

When a candidate has failed to obtain the required blank form of application the regular examination fee will be accepted if the fee arrive not later than the date specified above and if it be accompanied by a memorandum with the name and address of the candidate, the exact examination centre selected, and a list of the subjects in which the candidate is to take the Board examinations.

Candidates who have failed to file applications for examination may be admitted by the supervisor to all examinations except the Scholastic Aptitude Test upon payment of a fee of \$5.00 in addition to the regular examination fee. Such candidates should present themselves at the beginning of the period of registration. They will receive from the supervisor blank forms of application which must be filled out and transmitted to the Secretary of the College Entrance Examination Board.

In order to exhibit their tickets of admission, to learn their examination numbers, and to obtain seats in the examination room, candidates should report for a morning examination at 8:45 and for an afternoon examination at 1:45. An examination will close for candidates admitted late at the same time as for other candidates. The examinations will be held in accordance with the time, Standard Time or Daylight Saving Time, observed in the local schools.

No candidate will be admitted to the Scholastic Aptitude Test late, that is, after the test has begun.

The Scholastic Aptitude Test, which will be held on the morning of Saturday, June 23, 1934, may be taken upon the completion of the

school course or at the end of the third year of secondary school work. Each candidate desiring to take this test, even though she is to take no other examination, must file with the Secretary of the College Entrance Examination Board the usual application for examination. Application blanks will be sent to any teacher or candidate upon request by mail to the Board. If the Scholastic Aptitude Test is taken in connection with other examinations no additional fee is required; if taken alone the fee is \$10.00.

A week or more in advance of the Scholastic Aptitude Test each candidate who is to take the test will receive a booklet containing, with explanations and instructions, a specimen test, the blank spaces of which are to be filled in by the candidate. In order to secure admission to the test the candidate must present not only her ticket of admission but also this booklet with the spaces filled in as requested. The supervisor will admit no candidate to the examination room without this booklet.

It is very desirable that candidates who are to take the Scholastic Aptitude Test file their applications with the Secretary. Applications for the test will be accepted by the supervisor, however, up to the day before the test provided the supervisor's supply of material for the Scholastic Aptitude Test is sufficient.

SEPTEMBER EXAMINATIONS.—The comprehensive examinations of the College Entrance Examination Board are offered in September at Wellesley College. Special permission to take these examinations must be obtained from the Board of Admission of Wellesley College, and requests should be entered by August 20. The September examinations are conducted primarily as final examinations for a limited number of promising students who have incurred only a slight failure in the June examinations under Plan A.

SCHEDULE OF EXAMINATIONS

SEPTEMBER, 1934

MONDAY, SEPTEMBER 17

9-12 A.M.	English.
2- 5 P.M.	French.

TUESDAY, SEPTEMBER 18

9-12 A.M.	Latin.
2- 5 P.M.	History.

WEDNESDAY, SEPTEMBER 19

9-12 A.M.	Elementary Mathematics.
2- 5 P.M.	German, Italian, Spanish.

ADMISSION

THURSDAY, SEPTEMBER 20

9-12 A.M.	Chemistry, Physics.
2- 5 P.M.	Greek,
	Advanced Mathematics.

FRIDAY, SEPTEMBER 21

9-12 A.M.	Scholastic Aptitude Test.
2- 5 P.M.	Biology, Botany, Zoölogy.

REGENTS EXAMINATIONS

Regents examinations with a rating of 75 per cent may be offered in place of the examinations of the College Entrance Examination Board. Credits must be presented on the card verified by the State Board of Education of New York. The Board of Admission considers an average lower than 85 per cent as doubtful evidence of ability for college work. For further information concerning the acceptance of Regents Examinations candidates are referred to the Board of Admission of Wellesley College.

PLAN OF ENTRANCE SUBJECTS

For admission to the freshman class a candidate must present fifteen units* of secondary school studies chosen according to the following plan:

Group I. Prescribed, 10 units:

English	3
Mathematics	3
Algebra 2	
Plane Geometry 1	

Latin	3
History	1

Group II. Restricted Electives, 2 units:

Foreign language	2
or	

Science	2
or	

Science 1 and a second unit of History 1	2
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Group III. Free Electives, 3 units.

If the unrestricted electives are chosen from subjects other than those in the group of prescribed and restricted electives, candidates are advised to submit their plan to the Board of Admission by September 1 of the year previous to their proposed admission to college.

*A unit represents a year's study of a subject with four or five class appointments a week or not less than the equivalent of 120 sixty-minute hours of classroom work, two hours of laboratory work counting as one hour of classroom work.

DATES ON WHICH ADMISSION CREDENTIALS ARE DUE

The following credentials must be in the hands of the Board of Admission before July 15 of the year in which entrance is desired:

1. Personal information blank with the candidate's choice of examination plan.
2. Before March 1—Scholarship applications and requests for financial aid. (*Form* must be obtained in advance. For information of basis of award, see page 148.)
3. Before June 1—Health certificates and two 2" by 1½" photographs.
4. During May—Application for examinations of the College Entrance Examination Board, including Scholastic Aptitude Test (for exact dates, see pages 31-32.)
5. Before July 1—Official transcript of school record for the final year. (Blank sent to school in May.)
6. Before July 15—Official reports of Regents examinations.

DEFINITION OF REQUIREMENTS

The definitions of requirements in all subjects in which the College Entrance Examination Board offers examinations are based on the statements outlined by this Board. The complete statement of these requirements may be found in the pamphlet called "A Definition of Requirements," published annually by the College Entrance Examination Board, which may be obtained by sending twenty-five cents in stamps to the following address: College Entrance Examination Board, 431 West 117th Street, New York City.

In the following statement of requirements, the number enclosed in parentheses following the subject indicates the number of units assigned to that subject, that is, the number of years with four or five recitations a week which will normally be required in the secondary school for adequate preparation in the subject.

ENGLISH (3)

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation, and the development of the habit of reading good literature with enjoyment.

GRAMMAR AND COMPOSITION.—English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical

accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from her reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in her recitations and various exercises, whether oral or written.

To meet the requirement in Composition, there should be practice in writing equivalent to weekly themes the first two years, and fortnightly themes the last two years of the preparatory course. Themes should be accompanied by simple outlines. The following books are suggested: Scott and Denney's *Composition—Rhetoric*; Neal's *Thought Building in Composition*; Robins and Perkins' *Introduction to the Study of Rhetoric* supplemented by Herrick and Damon's *Composition and Rhetoric*; Shackford and Judson's *Composition—Rhetoric—Literature*; Manly and Rickert's *The Writing of English*.

LITERATURE.—The second object is sought by means of the reading and study of a number of books, from which may be framed a progressive course in literature covering four years. The student should be trained in reading aloud and be encouraged to commit to memory notable passages both in verse and in prose. As an aid to literary appreciation, she is further advised to acquaint herself with the most important facts in the lives of the authors whose works she reads and with their place in literary history. A few of these books should be read with special care, stress being laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions.

A list of the books recommended for reading and study, and suggestions concerning preparation for the College Board examinations in English will be found in a document entitled "Definition of Requirements," published by the College Entrance Examination Board.

HISTORY (1, 2 OR 3)

All applicants for admission are required to offer one unit in History. One or two additional units of History may be offered from the following: (1) American History (with or without Civil Government), (2) Ancient History, (3) English History, (4) European History. For

suggestions about preparation in History and the scope of the College Board examinations candidates are referred to a document entitled "Definition of Requirements," published by the College Entrance Examination Board.

MATHEMATICS (3 OR 4)

In a document entitled "Definition of Requirements," published by the College Entrance Examination Board, will be found the description of the requirements.

ALGEBRA.—The requirement is met by the course in Mathematics designated as A.

PLANE GEOMETRY.—The requirement is met by the course in Mathematics designated as C. If desired, the course designated as *cd* may be substituted.

SOLID GEOMETRY AND TRIGONOMETRY.—The requirement is met by the courses in Mathematics designated as D and E.

LATIN (3 OR 4)

4 UNIT REQUIREMENT.—Candidates should be familiar with the forms and syntax of the language and possess a vocabulary sufficient to translate Latin into idiomatic English and English into correct Latin. They should also be able to translate at sight Latin prose and poetry of moderate difficulty and to read Latin prose and verse according to the Roman method of pronunciation with strict attention to vowel quantities. To attain such proficiency not less than five forty-minute periods a week for four years should be given to the study of Latin.

The following recommendations are made in respect to the reading:

(1) In the second year the early reading should be easy Latin which may be "made" or adapted Latin; not less than one half of this year should be devoted to the reading of selections from Cæsar. The reading for the year may also include easy selections from such authors as Aulus Gellius, Eutropius, Nepos, Phædrus, Quintus Curtius Rufus, and Valerius Maximus, or books of selections containing some of these together with authors of prose works.

(2) In the third year, if the reading be in prose, not less than one half should be devoted to the reading of selections from Cicero; the reading for the year may also include selections from such authors as Pliny, Sallust, and Livy, or books of selections containing these and other authors of prose works.

(3) In the fourth year, if the reading be in poetry, not less than one half should be devoted to the reading of selections from Vergil; and the reading for the year may also include selections from such works as the Metamorphoses, Tristia, Heroides, and Fasti of Ovid, or books of selections containing poems or extracts from Ovid or from other poets.

The examination paper will include passages of Latin prose and verse of varying degrees of difficulty for "comprehension" and translation, and passages for Latin composition for the candidates presenting three years of Latin, and for those presenting four years of Latin in one examination. Accompanying the different passages set upon the paper will be questions on forms, syntax, and the idioms of the language, as well as such questions on the subject-matter, literary and historical, as may fairly be asked.

Further information concerning the character of the examination in four units of Latin will be found in a document entitled "Definition of Requirements," published by the College Entrance Examination Board.

3 UNIT REQUIREMENT.—The course of study for the first two years is the same as for candidates offering four units of Latin for admission. In the third year either the prose authors or the poetry may be offered. Constant practice in Latin writing is essential. Suggestions for study will be found in the document referred to above.

Suggestions Concerning Preparation.—Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word—and so, gradually, of the whole sentence—just as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each word as it comes, so far as this can be known or inferred from that which has preceded, and from the form and the position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for all the translating that the student has to do. No translation, however, should be a mechanical metaphrase, nor should it be a mere loose paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

It is of special importance that practice in writing easy Latin *at sight* should be continued *throughout the entire period of preparation*

in connection with the reading of the Latin authors. In the last year special attention should be given to translating continuous English into Latin both in the prepared and sight work.

A written examination cannot test the ear or tongue, but proper instruction in any language will necessarily include the training of both. The school work in Latin, therefore, should include much reading aloud, writing from dictation, and translation from the teacher's reading. Learning suitable passages by heart is also very useful, and should be more practiced. The work in composition should give the student a better understanding of the Latin she is reading at the time, and greater facility in reading. The teachers of Latin in the preparatory schools are urged to insist upon the use of good English in translation.

FRENCH (2, 3 OR 4)

The department has adopted the new requirements of the College Entrance Examination Board that appear in the current number of the "Definition of Requirements." To this document candidates are referred for information about the work to be accomplished to fulfill the requirements in the different years of preparation.

French being the language used in the classroom in college, students are expected to understand it when spoken by the instructor in the classroom, and to be able to answer in French when asked questions on their work and reading.

GERMAN (2, 3 OR 4)

The department has adopted the new requirements of the College Entrance Examination Board that appear in the current number of the "Definition of Requirements."

The language of the classroom in all courses is almost exclusively German.

GREEK (2 OR 3)

2 UNIT REQUIREMENT.—During the two years the student should acquire a knowledge of the language sufficient to enable her (1) to translate at sight simple passages of Attic prose, and to answer questions on ordinary forms and constructions; (2) to translate into Greek a passage of connected English narrative, based on Xenophon; (3) to read Greek aloud with correct pronunciation and with full expression of the sense of the passage.

The prescribed study includes—(1) Grammar: inflections; the simpler rules for composition and derivation of words; use of cases; construction of sentences, with particular regard to the use and meanings

of the moods. (2) Prose Composition: regular practice in writing or speaking Greek, with at least twenty written exercises, including some connected passages. (3) Three books of Xenophon's *Anabasis*, or its equivalent.

Suggestions Concerning Preparation.—The acquiring of a good working vocabulary should begin with the first lesson, and constant practice in the use of the more common words should be kept up throughout the course. The students should learn to recognize the words by hearing as well as by sight, and should be able to use them in speech as well as in writing. Writing Greek from dictation, learning short passages by heart, and putting simple English sentences into Greek orally, or answering in Greek simple questions asked in Greek serve not only to fix vocabulary and forms in the students' minds, but also to give them a feeling for the natural Greek form of expression.

3 UNIT REQUIREMENT.—In addition to the preparation for the two unit requirement stated above, the student must be able to translate at sight a passage from Homer, to read it with a correct expression of the rhythm, and to answer a few questions on the Homeric forms and on the subject-matter.

The prescribed study includes: three books of Homer's *Iliad*; Prose Composition, continued practice in translation into Attic prose of connected passages of English.

ITALIAN (2, 3 OR 4)

The department has adopted the new requirements of the College Entrance Examination Board that appear in the current number of the "Definition of Requirements."

It is essential that the student should become accustomed from the beginning to the use of the spoken language in the classroom.

SPANISH (2, 3 OR 4)

The Department of Spanish adopts the new requirements as they are printed in the current number of the document entitled "Definition of Requirements."

It is essential that the student should become accustomed from the beginning to the use of the spoken language in the classroom.

SCIENCE (1, 2 OR 3)

One to three units of science may be offered from the following subjects: (1) Biology, (2) Botany, (3) Chemistry, (4) Geography, (5) Physics, (6) Zoölogy. The requirements in science are met by the courses outlined in a document entitled "Definition of Requirements,"

published by the College Entrance Examination Board. The requirement in Botany may also be met by covering the main features in the course outlined in the Laboratory Guide for the introductory course at Wellesley College. Copies of this guide may be secured if desired from the office of the Board of Admission, Wellesley College.

Students are not required to submit laboratory notebooks for admission credit in science.

MUSIC (1 OR 2)

One unit of admission credit is granted in either Harmony or Appreciation.

Two units of admission credit are granted for either of the following combinations: I. Harmony and Practical Music; II. Appreciation and Practical Music.

No admission credit is given for Practical Music alone.

A. HARMONY.—Students taking this examination must present, at the time of the examination, their harmony notebooks indorsed by their teachers. The examination will be adapted to the proficiency of those who have had one year's systematic training with at least five lessons a week or its equivalent. (It is understood that this work may be done in two or more years.) The candidate should have acquired:

(1) The ability to harmonize in four vocal parts simple melodies or basses of not fewer than eight measures in major and minor. These melodies and basses will require a knowledge of (a) triads and inversions, (b) diatonic seventh chords and inversions, (c) non-harmonic tones, (d) modulation, transient and complete, to nearly-related keys.

It is expected that systematic work in ear-training, involving the recognition of intervals (melodic and harmonic), melodies, and chords, has been done in connection with the above, and students will be examined in the same.

The ground covered by this examination is represented by the following textbooks. Goetschius: *The Theory and Practice of Tone Relations*, Chaps. I through XXI. Foote and Spalding: *Modern Harmony*, Chaps. I through XXI. Gehrken: *Music Notation and Terminology* is suggested for rudiments, and Wedge: *Ear-Training and Sight-Singing* for practice in the recognition of intervals and for melodic dictation. Material for practice in the recognition of chords may be found in any harmony textbook.

B. APPRECIATION.—It should be the purpose of this course (a) to provide suitable training to accompany the study of practical music

during the preparatory years, (b) to prepare students for entering a course in elementary harmony, (c) to acquaint students with a small but representative literature of music and with some of the elements of musical form.

The course should cover the following:

(NOTE: It is suggested that the material outlined below under I and II be made *prerequisites* to the course, not included in it.)

I. Elements: names of the scale tones; scale formation, major and minor; key signatures; commonly used time signatures; commonly used marks of expression; chord formations including the dominant seventh.

II. Ear-training: recognition of major and minor scales and triads; recognition of all intervals in major and minor scales; recognition of plagal cadence, perfect cadence, half cadence, deceptive cadence; recognition of duple and triple meters and of rhythms characteristic of Waltz, Minuet, Mazurka, and Polonaise.

III. A study of the following forms: Simple Three-part Song-form, Binary Form, Ternary Form, Rondo Form, Theme and Variation Form, Minuet and Trio Form.

In testing this knowledge, the student will be required to recognize the form of a composition upon hearing it played three times.

IV. Memory work. The examination will include a memory test of representative musical examples. A list of at least twenty examples chosen by the student (from the works suggested for use in appreciation courses by the music departments of three Eastern Women's Colleges*) must be presented to the examiner. The examination on this part of the work will be based on the list thus presented.

C. PRACTICAL MUSIC

PIANO. The candidate must be prepared to play for the examiners the following and no candidate will be examined who is not *ready to perform* these requirements: (1) Any scale (including major and all forms of minor) at metronome speed of four notes = 88. (2) Any two studies selected by the student from Czerny, Opus 261, Heller, Opus 45, or Le Couppey, Opus 20. (3) A Bach Two-Part Invention. (4) The first movement of a sonata by Haydn, Mozart, or Beethoven. (5) A piece of moderate length (which must be memorized) selected from the works of Schubert, Schumann, Mendelssohn, or Chopin. (6) Hymn tunes and simple pieces at sight.

*A list of these compositions will be furnished on application to the Department of Music of Wellesley College.

VOICE. The candidate must be prepared to meet the following requirements: (1) To sing with good pitch and intonation, technical facility, correct phrasing, and musical interpretation not fewer than six of the following songs: Any song of MacDowell, Franz Schubert, Schumann, or Brahms; Mozart's *Wiegenlied*, Grieg's *Mit einer Primula Veris* or *Der Schwan*; any of the Weckerlin bergerettes; any song from Schirmer's *Anthology of Italian Song*; or other songs with the approval of the Department. (2) To play simple accompaniments. (3) To sing at sight music of the type of folk songs, Brahms' *Wiegenlied*, Schubert's *Haiden Röslein*, and others.

VIOLIN. The candidate must be prepared to play: (1) Major and minor scales with good intonation. (2) Any two studies of the grade of Dont, Opus 38 or Mazas, Opus 36, Vol. I. (3) A sonata of Mozart, a sonatina of Schubert, or solo of moderate difficulty with correct phrasing and musical tone. (4) Simple pieces at sight.

BIBLICAL HISTORY (1)

A course such as the one outlined by a committee of the National Association of Biblical Instructors will meet the requirement. A statement of this course has been published in "Christian Education," March, 1928, pp. 385-392, and a reprint of this can be obtained from the Council of Church Boards of Education, 111 Fifth Ave., New York City.

ADMISSION TO ADVANCED STANDING

TERMS OF ADMISSION

The number of students admitted to advanced standing in any year is limited and all entrance is on a competitive basis. If a student has maintained an excellent record in college and has special interests which she can follow out at Wellesley College, the Board of Admission would encourage her to apply for entrance with advanced standing credit. For information about registration candidates should read page 27.

A candidate should show that she has covered the admission requirements for the freshman class of fifteen units of secondary school work (see page 34) and has completed at least a full year of highly satisfactory work at another college. She should be entitled to honorable dismissal from the college which she has attended and should be recommended by her instructors. The Board of Admission will give information about the colleges and universities from which credits are accepted.

Candidates admitted from other colleges will be required to register during the first year as unclassified students, unless they have met the

ADMISSION

examination requirements for entrance to the freshman class at Wellesley College. (See pages 28-31.) Residence of at least two years is required to obtain the B.A. degree, of which one must be the senior year. The work of these two years must include all the prescribed work (see page 48), not covered by the credentials submitted. The exact amount of credit given for work completed in another college will not be determined until after the first year of residence. The success with which advanced standing candidates carry the work in the first year at Wellesley is a determining consideration in deciding credit.

The selection of applicants for admission with advanced standing will be made in July of the year in which entrance is desired.

CREDENTIALS

The following credentials must be in the hands of the Board of Admission before July 1 of the year in which entrance is desired:

1. Official statement of college credits, with dates of attendance, courses offered for credit, grades attained in each course, entrance credits, and honorable dismissal.
2. Official record of any entrance examinations which have been taken.
3. Copy of the catalogue of the college attended, with name of candidate, list of courses offered for credit, and page references.
4. Letter of recommendation from one of candidate's instructors and the Dean.
5. Health credentials.
6. Statement from candidate of her reasons for wishing to transfer to Wellesley College and of the subjects of her major interest.

ADMISSION OF CANDIDATES FOR THE M.A. AND M.S. DEGREES

Candidates for the degree of Master of Arts or Master of Science in Hygiene and Physical Education must be graduates of Wellesley College or of other institutions of satisfactory standing, and must present adequate credentials signifying their ability to carry on the work for the degree.

Application for admission as a graduate student in any department should be made upon a form which will be furnished by the Dean of Graduate Students on request. It is desirable that the application be sent by March first of the year in which the student proposes to enter. It should be accompanied (1) by the official record of admission subjects, college courses and grades, (2) by a copy of the catalogue of the institution attended, marked to indicate the courses taken, (3) if possible, by papers and reports of work.

A matriculation fee of five dollars is payable when a student is accepted as a candidate for the Master's degree. The amount of this fee will be deducted from the diploma fee of twenty-five dollars payable when the degree is received.

Graduate fellowships and scholarships are described on pages 145-148.

A circular containing full information for graduate students will be sent on application to the Dean of Graduate Students. For requirements for the M.A. and M.S. degrees see page 52.

ADMISSION OF STUDENTS NOT CANDIDATES FOR A DEGREE

CANDIDATES FOR THE CERTIFICATE IN HYGIENE AND PHYSICAL EDUCATION

A two years' course, especially designed for the training of teachers of hygiene and physical education, and leading to the certificate of the Department of Hygiene and Physical Education, is offered to graduates of approved colleges who meet the requirements. Full information will be found on pages 107-112.

Correspondence should be addressed to the Dean of Graduate Students.

CANDIDATES FOR SPECIAL WORK IN OTHER DEPARTMENTS

Applicants who give satisfactory evidence of ability to pursue advanced courses of study may be admitted at the discretion of the Board of Admission, provided that they satisfy the requirements of the departments which they propose to enter. It will be noted that opportunities for prosecuting work along special lines are thus open to persons of experience and success in teaching who possess the requisite qualifications for admission to college classes.

Applicants of less maturity and attainment are not ordinarily admitted. If such desire admission they must expect to meet by examination the requirements prescribed for admission to the freshman class, or a full equivalent for them, and to satisfy such additional requirements as are prescribed by the departments which they propose to enter. Specific statements of these requirements in Music will be found on page 124.

As the capacity of halls of residence is not sufficient for candidates for degrees, special students cannot be lodged in the college buildings. Comfortable homes may be found in the village at about the same expense as in college houses.

Correspondence should be addressed to the Secretary of the Board of Admission.

DEGREES

The following degrees are conferred by the Trustees upon recommendation of the Academic Council:

Bachelor of Arts.

Master of Arts.

Master of Science in Hygiene and Physical Education.

**REQUIREMENTS FOR THE B.A. DEGREE
IN 1934, 1935**

Every candidate for the B.A. degree must complete before graduation the equivalent of sixty hours. First year French and first year German may not *both* be counted among the sixty hours. Neither first-year French nor first-year German may be so counted if taken after the sophomore year. Second-year French, second-year German, first-year Italian and first-year Spanish may not be counted among the sixty hours, if taken after the junior year. Of the sixty hours required for the B.A. degree, a certain number is prescribed, the rest elective.

I. PRESCRIBED. The following subjects are required as specified:

Biblical History	4½ hours
English Composition (unless exempted by examination)	3* "
Hygiene and Physical Education 120 (unless exempted by examination)	1 hou
Hygiene and Physical Education (practical)	1† "
Speech (unless exempted by examination)	1 "
Mathematics or Philosophy and Psychology	3 hours
A laboratory science	3 "
A foreign language or a second year of laboratory science	3 "

II. ELECTIVE. All courses are classified in Grades I, II, III; Grade I including elementary courses and Grade III the most advanced courses. All of the sixty hours not indicated in the above are elective, subject to the approval of the Faculty with the following restrictions:

Every candidate for the B.A. degree must show before graduation that she has completed twenty-one hours of restricted elective work, as follows:

* If a student fails to pass with a grade of at least C in the second semester of English Composition 101, she will be required to take an additional semester course in the sophomore year.

† The hour in practical Hygiene and Physical Education is met by four periods in practical work, two periods per week in the freshman year and two in the sophomore year.

(1) Twelve hours in one department
Nine hours in a second department,

or

(2) Nine hours in one department
Nine hours in a second department
Three hours in a third department.

The three-hour elective is to be supplementary to the work of one of the departments in which nine hours are chosen;

or

(3) Twelve hours in one department
Six hours in a second department
Three hours in a third department.

The six-hour and three-hour electives are to be supplementary to the work of the department in which twelve hours are chosen;

or

(4) Twelve hours in one department.

Three courses (conceivably in different departments) supplementary to the twelve hours;

or

(5) Fifteen hours in one department
Six in a second department.

The six-hour elective is to be supplementary to the work of the department in which fifteen hours are chosen.

Of the courses offered to fulfill this requirement, at least one full course of Grade III must be taken in the senior year. Of the twenty-one hours required at least nine hours must be above Grade I and at least six hours must be of Grade III.

Every candidate for the B.A. degree must pass a general examination in a major of nine or more hours in addition to the regular course examinations.

REQUIREMENTS FOR THE B.A. DEGREE

IN 1936 AND THEREAFTER

In constructing the curriculum of which the requirements are given below, the faculty was guided by a belief that a student's four years in college should give her several specific sorts of training. The *prescribed work* is planned to assure her possession of certain skills which are of general use and to add to the information which she has acquired before coming to college further information considered of fundamental importance. Thus the prescribed work in English Composition, Speech and foreign language is designed to assure her having accuracy and effectiveness in speaking and writing English, and in reading at least one foreign language. The prescription in Hygiene affords the student a knowledge of the laws of health. The prescribed work in Biblical History gives a knowledge of the historical basis of Christianity.

The requirement of *work for distribution* is made with the purpose of securing for each student some acquaintance with methods of work and ways of thinking in various representative fields of knowledge. The requirement of *work for concentration* is made in order that the student shall make a reasonably thorough study of one field of knowledge. The curriculum is so planned that a student has an opportunity for a considerable amount of absolutely free elective work.

Every candidate for the B.A. degree in 1936 and thereafter must complete before graduation the equivalent of sixty hours, and have in addition a reading knowledge of either French or German.

The examination to test the student's reading knowledge of French or German may be taken at the beginning of the freshman, sophomore or junior year. A reading knowledge of either Italian or Spanish may be accepted by the Academic Council as a substitute for a reading knowledge of French or German in cases in which students can show that such a knowledge of Italian or Spanish is needed by them as a tool for work in some particular field. Students majoring in a modern foreign language will be tested in a reading knowledge of a second language; such students may postpone the examination until the beginning of the senior year.

Of the sixty hours required for the B.A. degree a certain number is prescribed, a certain number must be elected to fulfill the requirements of *work for distribution* and *work for concentration*, the rest is free elective.

I. PRESCRIBED. The following subjects are required as specified:

Biblical History	3 hours
English Composition (unless exempted by examination)	3* "
Hygiene and Physical Education 120 (unless exempted by examination)	1 hour
Hygiene and Physical Education (practical)	1† "
Speech (unless exempted by examination)	1 "

Of the required subjects, English Composition, three hours, must be taken in the freshman year; Hygiene and Physical Education one and one-half hours in the freshman year, and one-half hour in the sophomore year; Biblical History, three hours, in the sophomore year; Speech, one hour, before the junior year.

II. WORK FOR DISTRIBUTION. Six hours in addition to the prescribed work, to be elected in each of the three groups given below. The six hours in each of the three groups are to be elected so as to fall three hours in one department and three hours in another. Only one beginning course in a modern language may be counted for distribution.

Group I. Art, English Composition, English Literature, French, German, Greek, Italian, Latin, Music, Spanish, Speech.

Group II. Biblical History, Economics and Sociology, Education, History and Political Science, Philosophy and Psychology.

* If a student fails to pass with a grade of at least C in the second semester of English Composition 101, she will be required to take an additional semester course in the sophomore year.

† The second hour in Hygiene and Physical Education is met by four periods in practical work, two periods per week in the freshman year and two in the sophomore year.

Group III. Astronomy, Botany, Chemistry, Geology and Geography, Mathematics, Physics, Zoölogy and Physiology.

Every freshman must take for distribution three hours in each of two groups; and every student is required to have had by the end of her sophomore year at least three hours counting for distribution in each group.

III. WORK FOR CONCENTRATION. Twenty-one hours in one field of concentration, of which a major of twelve to fifteen hours shall be in one department, and nine to six hours shall be in courses related or supplementary to the major but falling in one or more departments other than that in which the major is taken.

All courses are classified in grades I, II, III; grade I including elementary courses and grade III the most advanced courses. Of the courses offered to fulfill the requirement of *work for concentration* at least one full course of grade III must be taken in the senior year. Of the twenty-one hours required at least nine hours must be above grade I and at least six hours must be of grade III.

Every candidate for the B.A. degree must pass a general examination in a major subject in addition to the regular course examinations.

COURSE EXAMINATIONS

An examination period occurs at the end of each semester. At these periods, and also during the days of the admission examinations in September, examinations for the removal of conditions and deficiencies and for advanced standing may be taken.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year, must apply to the College Recorder for the requisite card of admission to the examination. The last day for receiving applications for such cards is *for the September examinations, September first; for the mid-year examinations, January first; for the June examinations, May first.*

N. B. Examinations for the removal of conditions and deficiencies excepted, no student can be admitted to examination upon a course which is not a part of her approved schedule for the year without permission both from the Chairman of the Department concerned and the Dean. *No student, therefore, should enter upon preparation for such an examination until her plan has been approved by both of the above named officers.*

STANDARD FOR GRADUATION

A certain quality grade is required for graduation and for the purpose of determining this quality grade, numerical values called "points" are given to the grade letters as follows: for grade A, three points for each semester hour of the course in which the grade is received; for grade B, two points; for grade C, one point; for grade D (passing), no points; for a grade below D, no points and not counted in hours toward a degree.

In order to be recommended for the degree of Bachelor of Arts a student must in each semester attain as many quality points as the hours she carries, i.e., a C average. Deficiency of points in any semester may be made good only in accordance with regulations adopted by the Faculty. Students who are deficient in quality points at the end of the third year or otherwise not diploma grade will not be permitted to continue.

The College reserves the right to require the withdrawal of students whose scholarship is not satisfactory, and of those who for any other reason are regarded as not in accord with the ideals and standards which the College seeks to maintain.

HONORS IN SUBJECTS

Students who wish to become candidates for Honors may apply in the spring of their sophomore or junior year to the special committee appointed to consider these applications.

All applications from candidates for Honors in Subjects must be accompanied by recommendations from the instructors concerned.

A student electing to study for Honors in Subjects will choose a Field of Distinction and will work in that field under the special direction of one or more of the instructors concerned who will advise her on the possible development of her Field of Distinction and will guide her in the carrying on of independent work within it.

A candidate for Honors in Subjects must take all the prescribed work. In place of the regular restricted elective she must take at least twenty-one hours in the chosen Field of Distinction. This Field of Distinction includes work in the major department and allied courses, and with the approval of the major department directing the work may include three hours of directed study independent of scheduled courses in the junior year and three hours in the senior year, thus giving the able student a stimulus to form habits of investigation in a manner to lead to advanced study.

Admission to Honors in Subjects will be confined to candidates whose scholarship, maturity and previous range of acquirement justify exceptional concentration. The work in the Field of Distinction for such a candidate will be subject to the following tests:

1. In general, the regular tests of the courses in the Field of Distinction must be taken, including the examinations in these courses through the junior year.
2. A comprehensive examination must be taken in the student's Field of Distinction at the close of the senior year. This examination will take the place of the general examination required for seniors and will be in part or wholly oral.

PRE-MEDICAL COURSE

Each student who is planning to study Medicine is advised to confer with her Class Dean before the beginning of her sophomore year.

Entering students are advised to elect two pre-medical sciences in the freshman year.

In general, requirements for admission to medical schools of Class A can be met by nine hours in Chemistry and six hours in Physics and Zoölogy respectively, but each student is advised to study carefully the requirements for the particular school which she has chosen.

Attention is called to the fact that twelve hours are required as a basis for the general examination in any department. It is, however, possible to fulfill the minimum requirement for medical schools, and to take the general examination in an entirely different field.

PREPARATION FOR HOSPITAL AND PUBLIC HEALTH WORK

Students planning to prepare for work in hospital or Public Health laboratories should begin both Chemistry and Zoölogy in their freshman year in order to have the necessary foundation for advanced courses. The departments of Botany, Chemistry and Zoölogy should be consulted concerning combinations of courses in later years of the college course.

GENERAL INSTRUCTIONS

The programme in the freshman year is as follows:

English Composition 101	3	hours
Hygiene 120	1	hour
Hygiene 121 (practical work 2 hours)	$\frac{1}{2}$	hour
Electives, 4 three-hour courses	12	hours
 Total	 <hr/>	 $16\frac{1}{2}$ hours

The courses must be chosen in accordance with the prerequisites given in the department statements from the list of courses named below, with the provision that one course must be chosen from each of two of the three groups (see below, and also page 48), and with the advice that the choice should not include two beginning courses in modern language.

ELECTIVE COURSES OPEN TO FRESHMEN, ARRANGED BY GROUPS

Group I. Art 101, 102, English Literature 105, 106, 107, French 101, 102, 103, 201, German 101, 102, 103, 104, Greek 101, 201, 202, 205, Italian 101, Latin 101, 103, Musical Theory 101, Spanish 101, 102, 103, Speech 101.

Group II. History 101, 102. Philosophy 102†, 107†, Psychology 101†.

Group III. Astronomy 101, Botany 101, Chemistry 101, 102, 201, 206, Geology 101, Mathematics 106, 107, Physics 101, 102, 104, 203, 205, Zoölogy 101.

If $16\frac{1}{2}$ hours are satisfactorily completed in the freshman year, the normal programme for the remaining years would be as follows:

Sophomore year	16½ hours
Junior year	15 "
Senior year	12 "

If $16\frac{1}{2}$ hours are not completed in both the freshman and sophomore years, a student may carry more hours in the junior and senior years than specified above, subject to the usual regulations.

Elective courses must be chosen with great care so that changes will not be necessary. Students are held responsible for observing the requirements for the degree and the proper sequence of courses.

Students, except entering freshmen, are required to choose in May their free and restricted electives for the year following. All requests for changes of elective courses should be sent in time to reach the College before September 15th.

REQUIREMENTS FOR THE M.A. AND M.S. DEGREES

Wellesley College offers graduate work leading to the degrees of Master of Arts, and Master of Science in Hygiene and Physical Education. The work required of a candidate is considered to be the equivalent of twelve hours of college work. In general a candidate is required to work in one department. The programme includes no fewer than two full courses of Grade III or their equivalents, and may include a thesis embodying the results of original research, or a report or reports based on independent work. A candidate for either degree is required to have a working knowledge of either French or German, to be tested by examination at entrance. Individual departments may require a second language. At least one year of graduate study is required of all candidates, but more time may be needed for the completion of the work. One year in residence is required of all candidates except graduates of Wellesley College who have done the work at some institution which does not grant a Master's degree to women.

Information regarding requirements for admission, theses, final examinations, etc., will be found in the Graduate Circular which will be sent on application to the Dean of Graduate Students.

† Require special permission.

COURSES OF INSTRUCTION

The following Courses of Instruction are offered by the several departments. The College reserves the right to withdraw the offer of any course not chosen by at least six students.

All courses are classified in grades I, II, III; grade I including elementary courses and grade III the most advanced courses. Grade I courses are numbered 101, etc.; grade II courses 201, etc.; grade III courses 301, etc.

ART

Professor: MYRTILLA AVERY, PH.D. (Chairman.)
DIRECTOR OF THE ART MUSEUM.

Lecturers: ELIZA NEWKIRK ROGERS,⁷ M.A.

HARRIET BOYD HAWES, M.A., L.H.D.

Associate Professors: SIRARPIE DER NERSESSIAN,⁴ LIC. ÈS LET., DIPL.
E.S., DIPL. E.H.E.

WILLIAM ALEXANDER CAMPBELL,⁵ M.F.A.

Assistant Professors: LAURINE MACK BONGIORNO, PH.D.
BERNARD CHAPMAN HEYL, M.F.A.

Instructors: AGNES ANNE ABBOT.

HELEN HAMILTON WERTHESSEN, B.DES.

THOMAS BUCKLAND JEFFERY, DIPL. OXON., M.F.A.

ADELE BARRE ROBINSON, B.DES.

MARIE MARCIA MAYFIELD, B.DES.

Secretary of the Museum: CELIA HOWARD HERSEY, B.A.

Cataloguer: MARGARET PATTERSON SURRE, M.A.

Museum Assistants:

Alice Churchill Moore.

MARY CATHERINE KEATING.

Some practice in the elements of drawing, painting and modeling is required as part of all courses in art (except as otherwise specified) in order to develop observation and increase appreciation of æsthetic values. This practical work is planned for students of the history of art, but will be adapted also to those whose interests are primarily in the studio. A few courses without practical work are offered as study supplementary to work in other fields. Visits to neighboring museums are required in all courses.

101. INTRODUCTORY COURSE.

This course, though aiming to lay foundations for further study of the history of art and leading directly to course 205, is complete in itself, having for its theme classic art, its inheritances and its part in later European art. The practical work includes drawing, modeling and water-color. First semester: Greek art, its predecessors in Egypt, Mesopotamia and Aegean lands, and the art of pagan Rome. Second semester: Christian art in the East and in Italy.

Open to all students except those who have completed or are taking course 102. Three hours a week for a year.

MR. CAMPBELL, MISS DER NERSESSIAN,
MISS ABBOT, MRS. ROBINSON, MISS MAYFIELD.

205. INTRODUCTION TO MEDIÆVAL AND RENAISSANCE ART.

First semester: Mediæval art with emphasis on Romanesque and Gothic architecture. Second semester: Renaissance and later art with emphasis on painting. The practical work includes painting and modeling.

⁴ Absent on leave for the first semester.

⁵ Absent on leave for the second semester.

⁷ Appointed for the second semester only.

Open to students who have completed course 101 or an equivalent. Not open to students who have completed or are taking course 202. Three hours a week for a year.

MR. HEYL, MR. JEFFERY, MRS. WERTHESSEN.

102. INTRODUCTION TO ANCIENT, EARLY CHRISTIAN AND ITALIAN ART.

The ground covered is in general the same as in course 101, but practical work is not included.

Open to all students except those who have completed or are taking course 101. This course may be offered as prerequisite for course 205 if supplemented by course 103 or 104. Three hours a week for a year. MISS AVERY, MRS. ROBINSON.

202. OUTLINE COURSE IN MEDIÆVAL, RENAISSANCE AND MODERN ART.

A survey of architecture, sculpture and painting, with emphasis on mediæval architecture in France and Renaissance painting in Italy. Practical work is not required.

Open to students who have completed course 101 or 102 and to seniors without prerequisite. Not open to students who have completed or are taking course 205. This course may be offered as prerequisite for courses of grade III if supplemented by practical work approved by the department. Three hours a week for a year.

MRS. BONGIORNO.

106. ANCIENT CIVILIZATIONS OF EGYPT, HITHER ASIA, THE ÆGEAN ISLANDS, GREECE AND ROME.

An outline based on the monuments. Practical work is not required.

Open to sophomores, juniors and seniors and may be taken as a supplementary study in archaeology by students who have completed or are taking course 101 or 102. One hour a week for a year. MRS. HAWES.

203. OUTLINE COURSE IN THE HISTORY OF ART.

This course follows the development of styles in architecture, sculpture and painting, emphasizing Greek sculpture, French mediæval architecture and Italian Renaissance painting. It aims to develop observation and æsthetic appreciation as well as to relate important monuments to their contemporary civilization. Practical work is not required.

Open to seniors, except those who have completed or are taking course 101, 102, or 202. Three hours a week for a year. MISS AVERY.

207. CHINESE AND JAPANESE ART.

A study of the art of China and Japan as it reflects the life and philosophy of the major periods. The practical work will include sketching in the Boston and Fogg Museums, and some practice in Japanese brush handling.

Open to juniors and seniors without prerequisite. Three hours a week for the first semester. MR. CAMPBELL.

303. PAINTING OF THE ITALIAN RENAISSANCE.

A study of the rise and development of painting in Italy, including some study of contemporary sculpture.

Open to students who have completed course 205, or an equivalent. Three hours a week for a year. MRS. BONGIORNO.

305. MODERN PAINTING.

Emphasis will be placed on the development of French painting from the 17th century to the present day, as a background for the study of contemporary movements. Practical experiments in composition, form and color will be used as a basis for the study of modern characteristics.

Open by permission of the department to seniors who have completed course 303, 311 or 313. Three hours a week for the second semester. MRS. WERTHESSEN.

306. ENGRAVING AND ETCHING FROM THE RENAISSANCE TO THE PRESENT TIME.

A study of the rise and development of engraving and etching including comparisons with the allied arts of woodcutting, mezzotinting and lithographing, and a brief study of technical processes.

Open to juniors and seniors who have completed or are taking course 205 or 202. Three hours a week for the second semester. MRS. BONGIORNO.

307. STUDIES IN MEDIÆVAL ART.

(Not given in 1933-34.) Problems in style and iconography involved in a study of the origins of Italian painting and sculpture. Influences seen in the Exultet Rolls and in early frescoes of Campania and the Abruzzi. Laboratory studies in the technique of tempera, fresco and manuscript illumination.

Open to seniors who have completed course 205 or an equivalent. Three hours a week for the first semester. MISS AVERY.

310. HISTORY OF MEDIÆVAL AND RENAISSANCE SCULPTURE.

(Not offered in 1933-34.) A study of the blending of classic and barbarian inheritances in the Middle Ages, and the emergence of the sculptural expression of the Renaissance. The practical work includes some modeling from life to develop a better understanding of the conventions of sculpture.

Open to students who have completed course 205 or an equivalent. Three hours a week for a year. MISS AVERY.

311. PAINTING OF NORTHERN EUROPE.

The period of study extends from about 1300 to 1600 in France, Germany and the Low Countries, and includes the seventeenth century in Flanders and Holland.

Open to juniors and seniors who have completed course 205 or an equivalent. Three hours a week for the first semester. MRS. BONGIORNO

312. SPANISH ART.

A study of the architecture, sculpture, painting and minor arts in Spain from the period of classical influence to the eighteenth century. Visits to the Boston and Fogg Museums will be required.

Open to juniors and seniors who have taken or are taking course 205 or an equivalent. Three hours a week for the second semester. MR. HEYL.

313. ART OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN WESTERN EUROPE.

This course will include architecture, sculpture and painting from the breakdown of the High Renaissance style to the beginning of the Neo-Classical movement.

*Open to juniors and seniors who have completed course 205 or an equivalent.
Three hours a week for the first semester.*

MR. HEYL.

314. BYZANTINE ART.

Mosaics and paintings of Byzantine churches from the sixth to the fourteenth century. Problems in style and iconography with opportunities for independent work and comparative studies with Italian art.

*Open to juniors and seniors who have completed or are taking course 202 or 205.
Three hours a week for the second semester.*

MISS DER NERSESSIAN.

315. GOSPEL ILLUSTRATION IN BYZANTINE MANUSCRIPTS.

(Not offered in 1933-34.) Origin and development of the various cycles. Iconographical comparisons with Armenian, Coptic, Syriac and Slavonic manuscripts and with mediæval church decoration.

*Open to juniors and seniors who have completed or are taking course 205 or 202.
Three hours a week for the second semester.*

MISS DER NERSESSIAN.

316. MEDIÆVAL ARCHITECTURE.

(Not offered in 1933-34.) This course begins with a review of late classical architecture and traces its changes through the Early Christian period into the Byzantine style in the East and the Romanesque and Gothic in the West.

*Open to juniors and seniors who have completed course 205 or an equivalent.
Three hours a week for the first semester.*

MR. CAMPBELL.

318. ANCIENT ART.

(Not offered in 1933-34.) Egypt and Hither Asia; beginnings of formal ornament; recently discovered towns, temples and tombs. Practical work is not required.

*Open to juniors and seniors who have completed or are taking course 202 or 205;
or to qualified juniors and seniors who have completed or are taking a course of
grade II in Biblical History, Greek, Latin or History. Three hours a week for the
first semester.*

MRS. HAWES.

319. PREHELLENIC ART.

(Not offered in 1933-34.) Arts and crafts of Minoan Crete. The Age of Fable in the light of recent excavations. Methods of excavation. Origins of Greek Art. Practical work is not required.

*Open to juniors and seniors under the same conditions as course 318. Three
hours a week for the second semester.*

MRS. HAWES.

320. HELLENIC ART.

Greek architecture and sculpture from the sixth to the fourth century B.C. Athens in the Age of Pericles. Masterpieces of Greek sculpture in American museums. Drawing is not required.

*Open to juniors and seniors under the same conditions as course 318. Three
hours a week for the first semester.*

MRS. HAWES.

321. HELLENISTIC AND ROMAN ART.

This course will follow the ramifications and syntheses of Classical Art from the conquest of Alexander to the conversion of Constantine. Painting and the minor arts will be studied. Drawing is not required.

Open to juniors and seniors under the same conditions as course 318. Three hours a week for the second semester. MRS. HAWES.

323. STUDIES IN ECCLESIASTICAL ARCHITECTURE, MEDIÆVAL, RENAISSANCE AND MODERN.

Problems in structural types; relation of styles to contemporary civilization; æsthetic analysis of architectural forms and design.

Open to students who have completed course 205 or an equivalent. Three hours a week for the first semester. MR. JEFFERY, MISS SURRÉ.

324. STUDIES IN DOMESTIC ARCHITECTURE, MEDIÆVAL, RENAISSANCE AND MODERN.

A critical study of selected types of house design. This will include comparisons of one type in different countries, such as the half-timber house in England, France and Germany; analysis of developments and interrelations, as in the Renaissance styles; and an investigation of the underlying principles of modern house building.

Open to students who have completed course 323. Three hours a week for the second semester. MRS. ROGERS.

350. RESEARCH AND INDIVIDUAL STUDY.

Independent work on special problems under direction of one or more members of the department.

Open by permission of the department to juniors and seniors who have completed or are taking a course of grade III. Three hours a week for a semester or for a year.

MISS AVERY, MISS DER NERSESSIAN, MRS. BONGIORNO.

STUDIO COURSES**103. STUDIO PRACTICE.**

Modeling, drawing, sketching, and painting (oil and water color).

This course may count toward the degree after one full course in the History of Art has been completed. Open to sophomores, juniors and seniors. Six periods of class instruction and three of studio practice, counting three hours a week for a year.

MISS ABBOT, MRS. WERTHESSEN.

104. STUDIO PRACTICE.

Drawing, modeling and water color painting. This course is planned for students who are conscious of no talent for practical art. Its purpose is to develop informed appreciation through practical study of the elements of the artist's technique; and to train students of the history of art in quick sketching and the use of color for recording observation. It corresponds in general to the studio work of course 101, and is advised for students who have taken course 102 and not course 103 and wish to major in art.

This course may count toward the degree after one full course in the History of Art has been completed. Open to sophomores, juniors and seniors who have not taken course 101 or course 103. One period of class instruction and two of studio practice counting one hour a week for a year.

MRS. ROBINSON.

204. STUDIO PRACTICE.

Design.

This course may count toward the degree after two full courses in the History of Art have been completed. Open by permission of the department to juniors and seniors who have completed course 103. Six periods of class instruction and three of studio practice counting three hours a week for the first semester. MISS ABBOT.

MUSEUM TRAINING COURSE

This course is open to graduates only and is described in a separate circular.

ASTRONOMY

Professor: JOHN CHARLES DUNCAN, PH.D. (Chairman.)
Instructor: HELEN WALTER DODSON, M.A.
Assistant: MARJORIE JANE LEVY, B.A.
Custodian: KATHARINE BULLARD DUNCAN.

101. DESCRIPTIVE ASTRONOMY.

A general survey of the facts of Astronomy, of the methods by which they are obtained and of the theories that account for them; facts with which every educated person should be familiar if only to understand the astronomical allusions occurring in literature and to be alive to the beauty of the order that is about us.

Open to all undergraduates. Three lecture appointments, one two-period laboratory appointment, and an average of one hour of evening observations, with one lecture appointment omitted at certain seasons, counting three hours a week for a year.

MR. DUNCAN, Miss Dodson, Miss Levy.

102. DESCRIPTIVE ASTRONOMY.

This course covers the same topics as Astronomy 101, and students of both courses attend the same lectures. No laboratory work is included in Astronomy 102, but in its place there is given a one-hour conference period for informal discussions and for occasional reports by students on assigned topics. Opportunity is given for constellation study and for observation with the telescopes.

Open to sophomores, juniors, and seniors. Astronomy 102 counts as a free elective but does not count toward fulfillment of the requirement for distribution in Group III. Three hours a week for a year.

MR. DUNCAN.

206. THE HISTORY OF ASTRONOMY.

(Not given in 1933-34.) Development of the science from ancient times to the present, with special emphasis on the period since Copernicus. Recitations and reports by students.

Open to students who have completed course 101. Three hours a week for the second semester.

MR. DUNCAN.

207. PRACTICAL ASTRONOMY.

Practice in the use of astronomical instruments and methods, with emphasis on observation with the equatorial telescope and its attachments.

Open to students who have completed course 101 or 102. Three hours a week for the first semester. This course involves both daytime and evening work at the Observatory.

MR. DUNCAN.

208. PRACTICAL ASTRONOMY.

Practice in the use of astronomical instruments and methods, with emphasis on the transit instrument and the determination of time, longitude, and latitude.

Open to students who have completed course 101 or 102 and who have a knowledge of Trigonometry. Three hours a week for the second semester. This course involves both daytime and evening work at the Observatory.

MR. DUNCAN.

301. ASTROPHYSICS AND STELLAR ASTRONOMY.

Astronomical spectroscopy, photography, and photometry. The laws of radiation. Solar and sidereal physics. Stellar motions. The constitution of stars.

Open to students who have completed Astronomy 101 or 102 and Physics 301. Three hours a week for the second semester. When combined with Physics 301 it may be counted toward a major in either Astronomy or Physics.

302. DETERMINATION OF ORBITS.

(Not given in 1933-34.) Determination, from three observations, of the elliptic and parabolic orbits of bodies in the solar system. Orbits of binary stars. Theory and practice.

Open to students who have completed Astronomy 101 and who have a knowledge of Calculus. This course may be counted toward a major in either Astronomy or Mathematics. Three hours a week for a year.

MR. DUNCAN.

304. ASTRONOMICAL SEMINAR.

(Not offered in 1933-34.) The specific subject will be determined by the interests and capabilities of the individual students.

Open to graduate students. Ordinarily, three hours a week for a year.

MR. DUNCAN.

350. RESEARCH OR INDIVIDUAL STUDY.

Work under one or more members of the department on subjects to be determined by the interests and capabilities of the individual student. This course may be taken repeatedly.

Open by permission of the department to graduates and other advanced students. Two or three hours a week for a semester, or one to three hours for a year. The amount of work contemplated must be indicated at the time of handing in electives.

BIBLICAL HISTORY, LITERATURE, AND INTERPRETATION

<i>Professor:</i>	OLIVE DUTCHER, M.A., B.D.
<i>Associate Professors:</i>	MURIEL STREIBERT CURTIS, B.A., B.D. (Chairman.) LOUISE PETTIBONE SMITH, PH.D.
	SEAL THOMPSON, M.A.
	GORDON BOIT WELLMAN, TH.D.
<i>Assistant Professors:</i>	KATY BOYD GEORGE, M.A.
<i>Lecturer:</i>	KATHARINE LOUISE McELROY, B.LITT. OXON., B.D.
<i>Assistant:</i>	JOSEPH GARABED HAROUTUNIAN, B.D., PH.D. ERMINIE GREENE HUNTRESS, B.A., B.D.

CLASS OF 1934

The requirement for a degree is met by courses 101 and 102, and a semester course in the New Testament, either course 202 or 205.

CLASS OF 1935

Members of this class, if they are graduating under the old curriculum, should use the plan for the class of 1934. They should use the plan for 1936 if they are graduating under the new curriculum.

CLASS OF 1936 AND THEREAFTER

The requirement in Biblical History may be met in any of the following ways:

1. By courses 101-102 and 202 (or 205).
2. By course 104.
3. By course 210 (see prerequisite).

If 101-102 and 202 (or 205) are chosen, one and one-half hours may be counted as a free elective or, if another semester course is taken in the department, it may be counted toward distribution.

Students intending to major in the department are advised to choose the first alternative.

101, 102. THE DEVELOPMENT OF RELIGION IN THE OLD TESTAMENT.

It is the purpose of this course to offer studies in the development of theology, worship and ethics in the Old Testament. There will be included such historical study of Hebrew national life and such presentation of the literary problems connected with the Old Testament writings as are necessary to make intelligible the development of thought.

Open to sophomores. Course 101, three hours first semester, to be followed by course 102, three hours second semester. MISS DUTCHER.

Course 102 will be given in the first semester for those who have been obliged to take course 101 in the second semester. MISS HUNTRESS.

104. STUDIES IN THE OLD AND NEW TESTAMENTS.

First Semester. Old Testament.

Consideration of certain dominant ideas and forces of Hebrew Religion as preparation for the study of the life of Jesus. Some practice in the use of the Bible as source material.

Second Semester. New Testament.

The life and teaching of Jesus, based on the first three gospels.

Required of sophomores except as indicated above. Three hours a week for a year.
MISS DUTCHER, MRS. CURTIS, MISS SMITH, MISS GEORGE, MISS McELROY,
MR. HAROUTUNIAN.

202. THE LIFE OF JESUS.

Aim: (1) To study the environment of Jesus in the government, institutions, manner of life, ideals, and literature of the Jewish people of his time. (2) To follow the unfolding of his life from the historical point of view. (3) To study his teachings: (a) in their historical connections as far as possible; (b) topically. (4) To become acquainted with the leading problems regarding the person and work of Christ, with different points of view and with the best literature on the subject.

Open to students who have completed courses 101 and 102. Three hours a week for a semester; offered in both semesters.

MISS THOMPSON, MR. WELLMAN, MISS GEORGE, MISS McELROY.

203. ELEMENTARY HEBREW.

The elements of Hebrew grammar, with practice in translation and the memorizing of a vocabulary. Reading of selections from the Old Testament. At the end of the course the student should be able to read simple Hebrew and to use the language in the study of the Old Testament.

Open to juniors and seniors. Three hours a week for a year. MISS SMITH.

204. THE BEGINNINGS OF CHRISTIANITY.

It is the purpose of this course to study the rise and earliest development of the Christian religion. The New Testament will form the basis for this study, with emphasis upon the thought of Paul and of the Fourth Gospel. This course is designed to enable those students who have already studied the Life of Jesus to complete their study of the New Testament and to see the principles of Jesus at work as they came in contact with the life of the Græco-Roman world. Class discussion; library references; short papers.

Open to students who have completed course 104, 202 or 210. Three hours a week for a semester. Offered in both semesters. MISS THOMPSON, MR. WELLMAN.

205. GREEK TESTAMENT. LIFE OF CHRIST STUDIED FROM THE GREEK TEXT OF THE SYNOPTIC GOSPELS.

This course deals with the same questions that are discussed in course 202, but the gospels are read in Greek instead of in English translation.

Open to students who have completed courses 101 and 102, and who present three units in Greek for admission or have completed Greek 101 in college. Three hours a week for the first semester. MISS McELROY.

206. GREEK TESTAMENT. TEXT STUDY OF OTHER NEW TESTAMENT BOOKS.

(Not given in 1933-34.) The course will deal with the development of Paul's theology. Such topics as these will be discussed: Paul's theology as a Pharisee: his conception of God, sin, salvation; his experience of Christ; his later theology. Parts of the following books will be read in Greek: Acts, I and II Corinthians, Romans, Philippians, Galatians.

Open to students who have completed course 205. Three hours a week for the second semester. MISS McELROY.

207. HISTORY OF RELIGIONS.

The aim of this course is to study the history of religions from the earliest historical period through the leading religions of today. The approach is from the historical standpoint and includes a study of comparative developments and values.

Open to juniors and seniors who have completed the required work in Biblical History. Three hours a week for a year.

MR. WELLMAN.

208. SURVEY OF THE APPLICATION OF CHRISTIAN ETHICS TO SOCIAL PROBLEMS.

A study of the attempts which organized Christianity in America has made to apply the ethical principles of the Bible to our social and international relations. The "social gospel" movement, "Christian Socialism," Christian peace movements, missions, and other movements to promote better understanding between races will be studied historically and in the light of their European parallels. An attempt will be made to evaluate their work today in the light of Christian theology.

Open to students who have completed the required work in Biblical History and who have taken or are taking Economics 101 or History 102 or any other course in modern history. Three hours a week for the second semester.

MISS McELROY.

209. THE RISE AND DECLINE OF THE HEBREW NATION FROM THE EARLY BEGINNINGS TO THE FALL OF JERUSALEM IN 586.

(Not given in 1933-34.) The purpose of the course is to trace processes that helped produce the nation and causes that contributed to its decline. The significance of outstanding personalities during the period will be considered. Emphasis will also be placed upon, first, learning to distinguish the varieties of source material preserved in each of the Old Testament books that deal with a given period and, second, using the same as sources of information.

Open to students who have completed course 104. Required of those who major in the Department of Biblical History, but who have not taken courses 101-102. Three hours a week for the first semester.

MISS DUTCHER.

210. SPECIAL BIBLICAL STUDIES FOR STUDENTS WITH A KNOWLEDGE OF GREEK.

(Not given in 1933-34.) This course is similar to course 104, offering a semester's study in the Old Testament and a semester of work based on the synoptic gospels, but the New Testament work is done in Greek.

Open to students who by the second semester of the year in which they take this course, will have completed four and one-half hours of Greek in college, or the equivalent. Students choosing this way of fulfilling the requirement in Biblical History may postpone the work until their junior year without special permission. Three hours a week for a year.

MISS McELROY.

301. SEMINAR IN HISTORY OF RELIGION.

This study consists of readings and discussions in the history of religions. Each student will be expected to investigate and study some particular historical problem. Emphasis will be laid upon the historical method of study as well as

upon an understanding of the characteristic development of the religion under attention.

*Open to approved seniors who have completed six hours in Biblical History.
Three hours a week for a year.*

MR. WELLMAN.

302. INTERPRETATIONS OF CHRISTIANITY.

The aim of this course is to study the varying conceptions of the essentials of Christianity as formulated in some of the most important periods of the history of the church; to consider these conceptions in their relations to the religion of the New Testament and to the religious thought of the present day.

Open to approved seniors who have completed courses 101-102 and either 202-204 or 205-206. Three hours a week for a year.

MISS SMITH.

303. SECOND YEAR HEBREW.

(Not offered in 1933-34.)

Open to students who have completed course 203. Three hours a week for a year.

MISS SMITH.

305. TRENDS IN CONTEMPORARY CHRISTIANITY.

Studies of such developments as Anglo-Catholicism, fundamentalism and modernism, the crisis theology, humanism, the social emphasis and the implications for religion of modern scientific concepts.

Open to students who have completed or are taking course 204 or 206. Three hours a week for a semester. In 1933-34 given in the second semester only.

MR. HAROUTUNIAN.

BOTANY

Professors: HOWARD EDWARD PULLING, PH.D.

LAETITIA MORRIS SNOW, PH.D. (Chairman.)

MARY CAMPBELL BLISS, PH.D.

Alice Maria Ottley,⁵ PH.D.

CURATOR OF HERBARIUM.

HELEN ISABEL DAVIS, B.A.

DIRECTOR OF BOTANIC GARDENS.

GRACE ELIZABETH HOWARD, PH.D.

ASSISTANT CURATOR OF HERBARIUM.

RUTH HUTCHINSON LINDSAY, PH. D.

HELEN STILLWELL THOMAS,⁷ M.A.

JULIA WILLIAMS JAMES, M.A.

BARBARA HUNT, M.A.

HELEN METZGER SPENCE, B.A.

HELEN WINIFRED PARKER, B.A.

MARION FRANCES FINLAY, B.A.

Associate Professors:

Instructors:

Assistants:

*Laboratory Assistant:
Secretary and Custodian:*

101. STUDIES IN PLANT LIFE.

The course aims to bring the student into intelligent sympathy with life problems as based on a study of plants. A rapid survey is made of the plant kingdom with emphasis upon present-day concepts of inheritance and evolution. This survey is followed by individual studies for which each student, in consultation with the instructor, chooses her own plant materials and methods.

⁵Absent on leave for the second semester.

⁷Appointed for the second semester only.

Open to all undergraduates. Six periods a week, in general two of lecture and recitation and four of laboratory or greenhouse or field, counting three hours a week for a year.

Miss BLISS, Miss HOWARD, Miss LINDSAY,
Miss OTTLEY, Miss THOMAS, Miss HUNT.

202. PLANT BIOLOGY.

This course aims to acquaint the student with the plant as a living individual that is both helped and hindered by its own structures and peculiarities and by its environment. Its processes are considered with as few technicalities as possible so that attention may be directed to the parts these processes play in its life and to their fundamental identity with well-known processes that occur outside the plant.

Open to students who have completed course 101 or its equivalent and to juniors and seniors without prerequisite. Six periods a week, three of lecture and three of discussion and laboratory, counting three hours a week for a semester; offered in both semesters.

MR. PULLING.

204. CULTIVATED PLANTS.

A study of garden plants—their identification and ornamental value; their culture requirements; the means of protecting them against pests and diseases. Lectures summarizing the principles underlying these subjects are supplemented by field trips and practical laboratory work in the gardens and greenhouses. This course is intended to stimulate interest in, and to furnish a background for work in home, school and other gardens not only for its practical but also for its educational and social value.

Open to students who have completed course 101 or its equivalent. Six periods a week, in general two of lecture and four of discussion, laboratory, greenhouse or field, counting three hours a week for a semester; offered in both semesters.

MISS DAVIS, MISS JAMES.

205. BACTERIA IN RELATION TO DAILY LIFE.

A brief survey of the field of microbiology. Emphasis is placed upon the study of bacteria, molds, and yeasts in the home, with special reference to the preservation of foods, the care of the sick-room, and to general household sanitation. A less detailed study is made of the larger problems of micro-organisms in relation to agriculture and certain other industries, and to disease and public health. There will be one visit to a Board of Health.

Open to students who have completed one year of either Botany, Chemistry or Zoölogy. Three periods a week, in general one of lecture and discussion, and two of laboratory or preparation, counting one hour a week for a year; no outside work is required.

MISS SNOW.

206. THE STRUCTURE OF PLANTS.

In this course a study is made of the origin, differentiation, and evolution of the structural elements of the plant body in vascular plants, including micro-chemical tests of the cell-wall membranes of young and of mature cells. Practice is given in preparing woody tissues for sectioning and in making permanent microscopic mounts.

Open to students who have completed course 101 or its equivalent, and to juniors and seniors without prerequisite. Six periods a week, in general two of lecture and recitation and four of laboratory, counting three hours a week for a semester. In 1933-34 given in second semester only.

MISS BLISS.

302. COMPARATIVE MORPHOLOGY OF THE FERNS, GYMNOSPERMS, AND ANGIOSPERMS.

(Not offered in 1933-34.)

304. PATHOLOGY OF THE HIGHER PLANTS.

(Not offered in 1933-34.)

305. ECOLOGY.

(Not offered in 1933-34.)

306. PHYSIOLOGY.

This course deals with the effects of a plant's structure, organization, history and environment upon its growth, development, and behavior. Experiments in the greenhouse and laboratories enable the student to visualize plant processes and this first-hand knowledge is applied in four principal ways: In interpreting outdoor nature; in brief discussions of fundamental biological problems; in outlining applications of physiology to problems in other fields of botany; and in deriving principles of plant culture.

Open to juniors and seniors who have completed three year-hours of grade II in Botany and who have completed or are taking a year of either Chemistry or Physics. Students who have completed course 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, two of lecture and four of discussion and laboratory, counting three hours a week for a year.

MR. PULLING.

307. CYTOLOGY AND HEREDITY.

Studies in the structure of the cell; the phenomena of cell division; the constitution of the reproductive cells with special reference to the theories of heredity and evolution. The classroom study of the problems of the transmission of characters from parent to offspring is supplemented by experimental studies, conducted by the students in the greenhouse, in the inheritance of color and other characters in Petunia. At the beginning of the year each student is assigned a practical problem in plant breeding.

Open to seniors, and by permission of the department to juniors, who have completed three year-hours of Grade II in Botany. Six periods a week, in general two of lecture and discussion and four of laboratory or greenhouse, counting three hours a week for a year.

MISS LINDSAY.

308. GENERAL BACTERIOLOGY.

The work of the first semester is designed to give the student a knowledge of the morphology and activities of bacteria. Emphasis is laid upon the principles underlying fermentation, preservation of foods, methods of sterilization, antisepsics, soil fertility, etc. The student becomes familiar with methods of making media, plating, making of transfers, staining, etc. This technique is used in

the study of selected problems, such as the milk and water supplies, sewage disposal and disease.

Open to juniors and seniors who have completed one year of Chemistry and either one year of Botany or Zoölogy, or a second year of Chemistry. Six periods a week, in general two of lecture and discussion and four of laboratory, counting three hours a week for a year.

MISS SNOW.

309.† LANDSCAPE GARDENING.

This course continues the study of ornamental plants, placing special emphasis upon their use in landscape gardening. The great historical styles in garden design, and the fundamental principles governing art are studied as a basis for the appreciation of modern landscape architecture. The laboratory practice gives training in methods of developing the landscape plan as adapted to the small estate. This course is intended primarily to give an intelligent appreciation of landscape gardening as a fine art.

Open to seniors, and in 1933-1934 to juniors, who have completed three year-hours of grade II, including course 204. By special permission course 204 may be taken in conjunction with course 309. Six periods a week, in general two of lecture and four of discussion and practice in drafting-room and field, counting three hours a week for the first semester.

MISS DAVIS.

310.† LANDSCAPE DESIGN.

This course continues the study of principles introduced in course 309, but lays more emphasis upon specific methods of carrying out these principles with landscape materials. A summary of the fundamentals of good construction is also included. Trips are taken as often as possible for observation and study of actual examples of the art.

Open to students who have completed course 309. Six periods a week, in general two of lecture and four of discussion and laboratory, counting three hours a week for the second semester.

MISS DAVIS.

311. WORLD FLORAS—THE DISTRIBUTION AND IDENTIFICATION OF PLANTS.

(Not offered in 1933-34.)

320. THEORETICAL PHYSIOLOGY.

The content of this course in any year depends upon the needs and interests of the students that elect it. The reading and discussions are concerned with the abstract and logical aspects of the subject; the methods by which research problems should be analyzed, the significance of explicit and implicit assumptions, the treatment of data, physiology as a field for deductive reasoning, etc.

Open to graduate students only. Three hours a week for a year. MR. PULLING.

322. BOTANICAL SEMINARS.

The work in the seminars listed below varies from year to year, depending on the botanical background of each student and on her plan for further study. In all cases a field of botanical science is scrutinized not so much from the standpoint of modern achievement as from that of method of investigation and the

† Courses 309 and 310 will not be offered in 1934-35.

theories and reasoning involved in reaching the present day conclusions. a. Anatomy. b. Bacteriology. c. Comparative Morphology. d. Cytology. e. Ecology. f. Genetics. g. Geographical Distribution. h. History of Botany. i. Pathology. j. Physiology. k. Plant Materials. l. Taxonomy.

Open to graduate students only. Three to six hours a week for a semester or a year.

THE TEACHING STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

The study will be under the direction of an instructor in the field chosen and may combine reading and investigation in the laboratory or may be restricted to reading. The nature of the work will depend upon whether the student is a senior or a graduate student, and upon the field of interest.

Open to graduate students and, by permission of the department, to approved seniors. One to three hours a week for a year or three hours for a semester. The amount of work contemplated must be indicated at the time of handing in electives.

CHEMISTRY

<i>Professor:</i>	HELEN SOMERSBY FRENCH, PH.D.
<i>Associate Professors:</i>	MARY AMERMAN GRIGGS, PH.D. (Chairman.)
	RUTH JOHNSTIN, PH.D.
<i>Assistant Professor:</i>	HELEN THAYER JONES, PH.D.
<i>Instructor:</i>	DOROTHY JANE WOODLAND, PH.D.
<i>Laboratory Assistants:</i>	DOROTHY JANE PERKINS, B.A.
	AUDRA JULIA ALBRECHT, B.A.
	MARGUERITE NAPS, B.A.
<i>Custodian:</i>	EMILY MAY HOPKINS, B.S.

101. ELEMENTARY CHEMISTRY. LECTURES AND LABORATORY WORK.

This course is for beginners in Chemistry and is planned to give the fundamental laws and theories of Chemistry, in connection with the study of the non-metals and a brief survey of the metals. Outside reading and reports thereon bring the student some knowledge of the applications of Chemistry.

Open to students who do not present Chemistry for admission. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for a year.

MISS JOHNSTIN, MISS JONES,
MISS ALBRECHT, MISS NAPS.

102. GENERAL CHEMISTRY.

This course is intended for those students who have offered Chemistry for entrance. It aims to give a brief intensive review of the preparatory work in Chemistry, with such additional study as shall prepare the students for the grade II courses in the department.

Open to students who have completed the admission requirement or its equivalent, and who are electing course 201 or 206. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for the first semester.

MISS FRENCH, MISS JONES, MISS WOODLAND, MISS PERKINS.

201. QUALITATIVE ANALYSIS.

A system of analysis for the detection of the common metals and acid radicals with the application of theoretical principles to the reactions involved. The

laboratory work includes practice in the solution and analysis of substances unknown to the student.

Open to students who have completed course 101 or 102. Two periods of lecture and six periods of laboratory a week, counting three hours a week for a semester. Offered in both semesters. Miss GRIGGS, Miss WOODLAND, Miss PERKINS.

202. QUANTITATIVE ANALYSIS.

This course is designed to give training in gravimetric and volumetric analysis. The theories discussed in course 201 are applied to the work of the laboratory, and problems related to the work are included in the class discussions.

Open to students who have completed course 201. One period of lecture and six periods of laboratory a week, counting three hours a week for a semester. Offered in both semesters. Miss GRIGGS, Miss WOODLAND.

206. INORGANIC CHEMISTRY.

(Not offered in 1933-34.) A continuation of course 102, with emphasis on the metals. The laboratory work will consist in the main of inorganic preparations. This course is counted in the restricted elective, but is not essential to it.

Open to students who have completed course 102. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for the second semester.

301. ORGANIC CHEMISTRY.

A systematic study of both the aliphatic and aromatic series. The laboratory work introduces the student to the fundamental methods of preparation and purification of typical organic compounds.

Open to students who have completed course 201 and by special permission, to students who have completed course 101. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for a year. Miss FRENCH, Miss JONES, Miss PERKINS.

302.† ADVANCED LABORATORY COURSE IN ORGANIC CHEMISTRY.

(Not offered in 1933-34.) This course includes a scheme of systematic qualitative organic analysis. The last half of the semester will be devoted by each student to an individual problem in the laboratory, involving organic preparations, and leading to a final paper.

Open to juniors and seniors who have completed courses 202 and 301. Two periods of lecture and recitation, six to seven periods of laboratory a week, counting three hours a week for the second semester. Miss FRENCH.

303. QUANTITATIVE ANALYSIS.

This course offers an opportunity for the study of some of the following more advanced methods of quantitative analysis: colorimetric and electrometric determination of hydrogen ion, including acid-base and oxidation-reduction titrations, conductimetric titrations, electro-deposition of metals, and the complete quantitative analysis of some more complex inorganic substances.

† Courses 302 and 310 will usually be offered in alternate years.

Open to juniors and seniors who have completed courses 201 and 202. Two periods of lecture and recitation and six periods of laboratory a week, counting three hours a week for the second semester.

MISS GRIGGS.

304. CHEMISTRY OF FOOD AND NUTRITION.

A study of the composition of common food materials and their function in nutrition. Laboratory practice is given in standard methods of analysis of foods including grain products, carbohydrates, fats and oils, milk and milk products.

Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. General Physiology (Zoölogy 308) is recommended as a parallel course. Two periods of lecture and recitation and five of laboratory a week, counting three hours a week for the first semester.

MISS JOHNSTIN, MISS ALBRECHT.

305. PHYSICAL CHEMISTRY.

This course traces historically, summarizes and applies to practical problems, the laws of matter in its various states of aggregation (including colloidal), and also the laws governing solutions, chemical equilibrium, and reaction velocity.

Open to juniors and seniors who have completed course 202, have completed or are taking course 301 and have completed or are taking a year of college Physics. Three periods of lecture and discussion and one three-period laboratory appointment a week, counting three hours a week for the first semester.

MISS FRENCH, MISS WOODLAND.

306. THEORETICAL CHEMISTRY.

This course discusses the modern theories of matter and energy, including especially atomic and molecular structure, and theories of valency. It will also include at least two of the following fields of chemistry:—electrochemistry, thermochemistry, and photochemistry.

Open to juniors and seniors who have completed course 305. Three periods of lecture and discussion a week, with approximately one three-period laboratory appointment each alternate week, counting three hours a week for the second semester.

MISS FRENCH, MISS WOODLAND.

307. ADVANCED INORGANIC CHEMISTRY.

A comprehensive survey of the different classes of inorganic substances and the modern theoretical interpretation of their interactions.

Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. Three hours a week for the second semester.

MISS JONES.

308. QUALITATIVE ANALYSIS.

(Not given in 1933-34.) A continuation of course 201, dealing with the more difficult problems of qualitative analysis. The course includes the systematic detection of acid radicals, and the complete analysis of unknown substances.

Open to juniors and seniors who have completed courses 201 and 202. One period of lecture and six of laboratory a week, counting three hours a week for the first semester.

MISS GRIGGS.

309. PHYSIOLOGICAL CHEMISTRY.

A study of the chemistry of the more important organs and tissues of the body and of the chemical changes involved in the digestion, assimilation and elimination of food constituents. The laboratory work includes a study of the methods of analysis generally employed in hospital practice.

Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. General Physiology (Zoölogy 308) is recommended as a parallel course. Two periods of lecture and recitation and five of laboratory a week, counting three hours a week for the second semester. MISS JOHNSTIN.

310†. QUANTITATIVE ORGANIC ANALYSIS INCLUDING MICROANALYSIS.

This course includes the classical methods of Liebig and of Dumas for the quantitative determination of carbon, hydrogen, and nitrogen in organic compounds; and also the newer methods of elementary micro combustions.

Open to juniors and seniors who have completed courses 202 and 301. Two periods of lecture and recitation, six to seven periods of laboratory a week, counting three hours a week for the second semester. MISS FRENCH.

320. SEMINAR.

Newer developments in Chemistry will be considered with the historical background of each. This course usually meets every other week for two hours during the evening.

Open to graduate students and to seniors approved by the department. One hour a week for a year. THE TEACHING STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

Each student electing this work will undertake an individual problem under the direction of the instructor in the field chosen. The work will include both laboratory work and reading.

Open to graduate students and, by permission of the department, to undergraduates who have completed at least nine hours in the department. Three hours a week for a semester or for a year.

ECONOMICS AND SOCIOLOGY

Professors: ELIZABETH DONNAN, B.A. (Chairman.)
HENRY RAYMOND MUSSEY, PH.D.
LELAND HAMILTON JENKS, PH.D.

Assistant Professors: LAWRENCE SMITH, M.A.

LUCY WINSOR KILLOUGH, PH.D.

MARY BOSWORTH TREUDLEY, PH.D.

Instructor: CHARLES FREDERICK WILSON, B.A.

Assistant: MARGARET ANN LINFORTH WILLGOOSE, M.A.

101. INTRODUCTION TO ECONOMICS AND SOCIOLOGY.

A study of the outstanding features of present industrial society together with an examination of the economic and social problems involved in the present distribution of wealth, and of methods and programmes for dealing with such problems.

† Courses 302 and 310 will usually be offered in alternate years.

Open to sophomores, juniors and seniors. This course is prerequisite to later election. Three hours a week for a year.

MISS DONNAN, MR. MUSSEY, MR. JENKS, MR. SMITH, MRS. KILLOUGH,
MISS TREUDLEY, MR. WILSON.

202. HISTORY OF SOCIAL INSTITUTIONS.

This course, after considering fundamental factors in social behavior, examines such institution clusters as property, family, religion, and law.

Open to juniors and seniors who have completed or are taking course 101 or to seniors majoring in Psychology. Three hours a week for a year. MR. JENKS.

204. ECONOMIC HISTORY OF THE UNITED STATES.

A study of our national development in its economic and social aspects, with special emphasis upon the westward movement, the struggle between agrarian and business interests, and the growth of business combinations.

Open to students who have completed or are taking course 101. Three hours a week for the second semester. MISS DONNAN.

209. ECONOMIC HISTORY OF ENGLAND.

This course includes a survey of the chief stages in English economic history, but especial attention is devoted to the period since the industrial revolution.

Open to students who have completed or are taking course 101. Three hours a week for the first semester. MISS DONNAN.

210. FINANCIAL ORGANIZATION OF SOCIETY.

This course deals with money, credit, and prices. It emphasizes the commercial bank and the development of our banking system, culminating in the Federal Reserve system. The business cycle is dealt with both historically and theoretically. Current financial topics such as the stabilization of European currencies and German reparations are studied.

Open to students who have completed course 101. Three hours a week for a year. MR. SMITH.

301. THEORIES OF SOCIAL RECONSTRUCTION.

(Not offered in 1933-34.) A study of theories for the reconstruction of society, with particular emphasis on the ideas that have influenced modern labor movements.

Open to juniors and seniors who have completed course 308. Three hours a week for the second semester. MR. MUSSEY.

302. URBAN SOCIOLOGY.

(Not offered in 1933-34.) A study of the modern American city as it has affected social institutions and human behavior, with special emphasis upon changes in standards of living, family and community organization and individual reactions brought about by an urban environment.

Open to students who have completed or are taking course 202. Three hours a week for the first semester. MISS TREUDLEY.

303. SOCIAL WELFARE.

An introduction to the study of the historical development of social work and of present policies and practices in the fields of public and private welfare.

Open to students who have completed or are taking course 202. Three hours a week for the second semester.

MISS TREUDLEY.

305. SOCIAL REGULATION OF BUSINESS.

Problems of monopoly, especially in respect to capitalization and price control, arising out of the development of railroads, public utilities, and industrial trusts in the United States; the aims, principles, and practice of public regulation of such industries; the theory and limits of "economic planning" as applied to them.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the second semester.

308. MODERN LABOR PROBLEMS.

A study of the changing position of the worker and of labor problems under modern industrialism, with special reference to conditions in the United States and Great Britain.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the first semester.

MR. MUSSEY.

310. PUBLIC FINANCE.

A study of the principles underlying public expenditures, borrowing, and taxation.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the first semester.

MRS. KILLOUGH.

311. SOCIAL AND ECONOMIC INVESTIGATION.

A study of statistical methods as used in economics and sociology.

Open to juniors and seniors who have completed or are taking a full course of grade II in the department. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for the first semester.

MRS. KILLOUGH.

312. SOCIAL AND ECONOMIC INVESTIGATION.

The study of economic and social statistics with emphasis on the analysis of time series.

Open to juniors and seniors who have completed course 311. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for the second semester.

MRS. KILLOUGH.

313. SEMINAR. SELECTED TOPICS IN THE HISTORY OF AMERICAN ECONOMIC AND SOCIAL MOVEMENTS AND THEORIES.

Open to graduates and approved seniors who are taking a major in the department. Three hours a week for the second semester.

MISS DONNAN.

314. INTERNATIONAL TRADE AND INVESTMENT.

The principles of international trade in their present application to the United States.

Open to juniors and seniors who have completed or are taking course 210. Three hours a week for the second semester.

MRS. KILLOUGH.

316. HISTORY OF SOCIAL THOUGHT.

This course deals with outstanding trends of thought from the Greeks to modern times, as reflected in the writings of such social and political philosophers as Plato, Aristotle, Augustine, Machiavelli, Locke, and Rousseau.

Open to seniors who have completed or are taking courses 101, and 202 or 209-204, in the department, or Political Science 104 and any other course of grade II in History or Political Science. Three hours a week for the first semester.

MR. JENKS.

317. HISTORY OF ECONOMIC THOUGHT.

A study of the development of economic thought, with special emphasis on the relations between economic conditions and economic thinking in the nineteenth century.

Open to seniors who have completed a full course of grade II in the department. Three hours a week for the first semester.

MISS DONNAN.

318. MODERN ECONOMIC THOUGHT.

A study of recent economic doctrine with special emphasis on those aspects which diverge from nineteenth-century theory, and some attention to the relation of economic science to other social sciences.

Open to seniors who have completed course 317. Three hours a week for the second semester.

MISS DONNAN.

319. MODERN SOCIAL THOUGHT.

A study of the principal trends of social and political thought manifested since the revolutionary period, especially in Great Britain and the United States.

Open to seniors who have completed or are taking courses 101, and 202 or 209-204 in the department, or Political Science 104 and any other course of grade II in History or Political Science. Three hours a week for the second semester.

MR. JENKS.

320. POPULATION PROBLEMS

A study of population theories beginning with Malthus, and of practical problems arising out of the increase, the distribution, and the movement of population.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the first semester.

MISS TREUDLEY.

350. RESEARCH OR INDIVIDUAL STUDY.

To a limited number of advanced students wishing to do individual work outside of regular courses the department is prepared to offer a course of directed reading, to be tested by examination.

COURSES OF INSTRUCTION

Students desiring to register for such a course must secure the approval of the Chairman of the department in advance of the time at which electives are due. Three hours a week for a year.

EDUCATION

<i>Professor:</i>	ARTHUR ORLO NORTON, M.A. (Chairman.)
<i>Assistant Professor:</i>	DOROTHY WARNER DENNIS, B.A., DIPL.E.U. ASSISTANT PROFESSOR OF FRENCH
<i>Visiting Professor:</i>	GUY MITCHELL WILSON, PH.D.
<i>Lecturers:</i>	MATILDA REMY, B.S. IN ED. ABIGAIL ADAMS ELIOT, B.A., ED.D. EUGENE RANDOLPH SMITH, M.A., PED.D. JOHN ROBERT PUTNAM FRENCH, M.A. CHARLES SWAIN THOMAS, M.A., LITT.D.
<i>Instructor:</i>	Alice Burt Nichols, B.A., Ed.M.
<i>Assistants:</i>	GRACE ALLERTON ANDREWS, M.A. FRANCES DUNBAR NICHOLS, M.A.

ANNE L. PAGE MEMORIAL

(KINDERGARTEN AND FIRST GRADE.)

<i>Director:</i>	MATILDA REMY, B.S. IN ED.
<i>Kindergartners:</i>	NETTIE MARIE CONANT ANNA ALDEN KINGMAN, B.A., ED.M.
<i>First Grade:</i>	EILEEN EDITH CHATER, B.A.

WELLESLEY NURSERY SCHOOL

Director: ELIZABETH LORD MACKINTOSH, B.A., ED.M.

The Department of Education offers both undergraduate and graduate courses. Nine hours of work may be counted toward the B.A. degree. Full work for the M.A. degree is offered.

201. MODERN EDUCATION: A STUDY OF THE PRINCIPLES OF EDUCATION, AND OF THE APPLICATIONS OF PSYCHOLOGY TO EDUCATION.

This course is organized to meet the needs not only of prospective teachers but also of all who are interested in the intelligent direction of education in the home, or as a phase of civic or social service. It is a study of the practices, theories, and problems of modern education. The work of the course is illustrated by visits to assigned schools for the observation of children and of classroom practice, and by examples of school work. Throughout this course the applications of Psychology to Education are considered and discussed.

Open to juniors and seniors who have completed or who are taking Psychology 101. Three hours a week for a year. *MR. NORTON, MRS. A. B. NICHOLS.*

202. HISTORY OF EDUCATION.

The purpose of the year's work is to study in some detail the most important events in the history of European and American education, and their effects on the present course of educational affairs. The lectures are constantly illustrated by original manuscripts, facsimiles, early editions of noted text-books, and similar historical documents, by translations from the sources, and by numerous lantern slides.

Open to juniors and seniors. By permission of the instructor students may elect either semester of Education 202 as a semester course. Graduates may elect this course under certain conditions. Three hours a week for a year. MR. NORTON.

301. SECONDARY EDUCATION.

The principles and methods of secondary education, with special reference to the high schools of the United States. A study will be made of approved methods of teaching English, foreign languages, sciences, mathematics, and history in high schools. Opportunity will be given for observation of the work of specially successful high school teachers in the subject which the student expects to teach. In connection with this course the department of Education requires from graduates a semester of practice teaching in a high school.

Open by permission to seniors who have completed a full course in Education, and to graduates. Three hours a week for a year. Students who take course 302 or 303 are permitted to count the first semester of course 301 as a semester course.

MR. NORTON, MR. THOMAS.

302. PRINCIPLES AND PROBLEMS OF RELIGIOUS EDUCATION.

(Not offered in 1933-34.) A study of the principles of education as applied to the teaching of religion; forms and methods of conduct control in the direction of the Christian ideal; survey and evaluation of available curricular materials for religious teaching; selected practical problems in the teaching of religion in the home, the school, the church school, and the community.

Open to seniors who have completed course 201. Students who elect this course may also elect the first semester of course 301 as a semester course. This course may be counted toward a major in Biblical History. Three hours a week for the second semester.

303. PRINCIPLES AND METHODS OF TEACHING FRENCH IN SECONDARY SCHOOLS.

The aim of this course is to teach the students how to impart to their pupils, in the shortest possible time, a speaking, understanding, reading, and writing knowledge of French. The instructor will deal with the several aspects of modern language work, such as the teaching of vocabulary, of grammar, of composition, and of translation; the selection and use of books, the equipment of the teacher and of her department in the high school.

Open to seniors who have completed Education 201 and who are taking course 301, 302, 305, 306, or 307 in the Department of French. Students who elect this course may also elect the first semester of Education 301 as a semester course. This course may be counted toward a major in French. Three hours a week for the second semester.

MISS DENNIS.

320. EDUCATIONAL TESTS, MEASUREMENTS AND STATISTICS.

The standardized tests now available for college preparatory and other secondary school studies will be examined in detail in this course. The uses, advantages, misuses and disadvantages of such tests will be considered. Students will be given practice in constructing tests, in the technique of testing, and in the arithmetical interpretation of results.

Open to seniors who have completed one full course in Education. Three hours a week for the first semester.

MR. WILSON.

321. PROBLEMS IN THE APPLICATION OF PSYCHOLOGY TO EDUCATION.

The subject-matter of this course will vary from year to year in accordance with the equipment and needs of students. The methods of educational investigation and experimentation will be considered, and each student will be given an opportunity for intensive work in a problem in her field of interest.

Open by permission to seniors who have completed a full course in Education and who have an adequate equipment in Psychology, and to graduates who have completed two full courses in Education, and who have an adequate equipment in Psychology. Three hours a week for the second semester.

MR. WILSON.

322. THE HISTORY, THEORY, AND PROBLEMS OF THE KINDERGARTEN.

Froebel, the founder of the kindergarten. The sources and the development of kindergarten theory and practice. Current problems of the kindergarten; the relation of the kindergarten to the primary school and to the home; methods of developing initiative and thinking; the reorganization of kindergarten materials; the restatement of Froebelian principles.

Open to seniors who have completed Psychology 101, or an equivalent, and one full course in Education. Open also to graduates. (Graduates must ordinarily take courses 322 and 323 together.) Three hours a week for a year.

MISS REMY.

323. KINDERGARTEN PRACTICE: MATERIALS, METHODS.

Course 323 deals in general with practical applications of the theory given in course 322. It includes on the one hand a detailed study of the materials, exercises, and methods of the kindergarten, and on the other, extensive observation of their use, with practice in teaching.

Open to graduates only. This course presupposes or is to be taken with course 322. (Graduates must ordinarily take courses 322 and 323 together.) Three hours a week for a year.

MISS REMY.

324. ELEMENTARY EDUCATION: HISTORY, THEORY, PRACTICE, AND PROBLEMS.

(Not offered in 1933-34.) Course 324 includes a detailed study of present elementary school practice, a critical discussion of the principles which underlie that practice, and the investigation of selected problems in elementary education.

Open to graduates who have completed Psychology 101, or an equivalent, and two full courses in Education. Three hours a week for a year.

325. HISTORY OF EDUCATION.

(Not offered in 1933-34.) This course covers the same periods in the history of education as course 202, but with additional reading, critical examination of the materials, and a detailed study of one or more topics from the sources. It is intended for graduate students who have had no general course in the history of education.

Open to graduates only. Three hours a week for a year.

MR. NORTON.

ENGLISH

I. ENGLISH LANGUAGE AND LITERATURE

Professors: MARTHA HALE SHACKFORD,² PH.D.
 LAURA HIBBARD LOOMIS, PH.D.
 ELIZABETH WHEELER MANWARING, PH.D.
 HELEN SARD HUGHES, PH.D. (Chairman.)
 ANNIE KIMBALL TUELL, PH.D.

Associate Professors: ALICE IDA PERRY WOOD, PH.D.
 KATHARINE CANBY BALDERSTON, PH.D.

Assistant Professors: BERTHA MONICA STEARNS, M.A.
 ELLA KEATS WHITING, PH.D.

Visiting Professor: GRACE ELIZABETH HAWK, B.LITT., OXON.

Assistants: LOUIS CAZAMIAN, LL.D., L.H.D.
 ELEANOR PARKHURST, M.A.

GERTRUDE GREENE CRONK, M.A.

105. THE HISTORY OF ENGLISH LITERATURE TO 1400.

(Not given in 1933-34.) Beginning with translations of *Beowulf*, the battle poems, and early Christian epics and lyrics, the course traces the development of Old English poetry and prose to the Norman conquest. In the Middle English period, special attention is given to the popular romances of the day (*Sir Gawain and the Green Knight*), to such allegories as the *Vision of Piers the Plowman*, and to the *Canterbury Tales* of Chaucer. The course is designed to train the student in the appreciation of distinctive literary types.

Open to freshmen, sophomores, and juniors. Not open to students who have completed or are taking a course of grade I. Three hours a week for a year.

106. SIXTEENTH CENTURY.

This course presents the literature of the Renaissance in Elizabethan England. It gives its most detailed study to Spenser as a focus of Renaissance interests, themes, forms, and among minor writers will give special emphasis to Sir Philip Sidney. It considers against the background of the times the characteristic types of verse, and among the dramatists Shakespeare's important predecessors such as Marlowe, and two or three typical plays of Shakespeare. It follows the development of prose in criticism, fiction, accounts of voyages.

Open to freshmen, sophomores, and juniors. Not open to students who have completed or are taking another course of grade I. Three hours a week for a year.

MISS BALDERSTON, MISS WHITING.

107. SEVENTEENTH CENTURY.

This course gives a survey of the century with the emphasis on the great writers: such as, Milton for the study of the epic; Bacon for the new philosophy of learning; Donne, Browne, and Burton for the effect of this philosophy upon literary thought and expression; Cavalier and religious poets for lyric forms; Ben Jonson and Beaumont and Fletcher for drama; Dryden for criticism. It attempts to train the student, by both intensive and extensive study, in literary appreciation and discrimination. It emphasizes the development of clear and simple prose.

² Absent on Sabbatical leave.

Open to freshmen, sophomores, and juniors. Not open to students who have completed or are taking another course of grade I. Three hours a week for a year.

MRS. LOOMIS, MISS STEARNS, MISS HAWK.

201. HISTORICAL DEVELOPMENT OF ENGLISH LITERATURE.

In order to avoid the rapid reading in a general survey, the course in different years concentrates on particular phases of English literature, considered historically in relation to contemporary English life and thought. This course counts for hours toward the degree, but not for admission to a course of grade III.

Open to seniors, and to juniors by permission of the department, who have not completed and are not taking another course in the department except course 202. No prerequisites. Three hours a week for a year.

MISS HUGHES.

202. AMERICAN LITERATURE.

The course attempts to give a comprehensive account of American literature. It stresses the historical development of that literature, and considers such dominant influences upon it as Puritanism, the moving frontier, and the changing conceptions of democracy. It studies the Colonial and Revolutionary sources of American idealism, the rise of imaginative literature during the first half of the nineteenth century, the triumph of realism after the Civil War, and the literary experimentation of the modern machine-age. This course counts for hours toward the degree but not for admission to a course of grade III.

Open to sophomores, juniors, and seniors. No prerequisites. Three hours a week for a year.

MISS STEARNS.

203. SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON.

This course emphasizes the stress and conflict of an age of transition. It considers primarily the innovations of Donne and Jonson in poetry and those of Bacon, Browne, Burton, Walton, and Hobbes in prose. Some time is given also to reading the Cavalier and religious poets.

Open to students, except freshmen, who have completed or are taking a course of grade I. Three hours a week for the first semester.

MISS HAWK.

204. MILTON.

The primary object of the course is the critical study of Milton as a master in lyric, epic, and dramatic poetry, and as a writer of notable prose. The character and genius of the poet are considered as influenced by the political and religious conflict of the time.

Open to students, except freshmen, who have completed or are taking a course of grade I. Three hours a week for the second semester.

MISS HAWK.

205. RENAISSANCE DRAMA.

(Not offered in 1933-34.) This course will trace the development of drama in Renaissance England, beginning with *Ralph Roister Doister* and continuing to the close of the theatres, 1642. Representative plays of the great Elizabethan and Jacobean dramatists will be studied, with particular emphasis upon the plays of Shakespeare.

Open to students, except freshmen, who have completed or are taking a course of grade I. Three hours a week for a year.

206. THE ENGLISH NOVEL: THE RISE OF THE TYPES.

The course deals with selected stages in the progress of the English novel, placing emphasis upon Richardson, Fielding, Smollett, and Sterne. It treats chiefly the realistic novel, but makes some study of romance from Sidney to Scott.

Open to students, except freshmen, who have completed or are taking a course of grade I. Three hours a week for a semester; offered in both semesters.

MISS TUELL.

207. ARTHURIAN ROMANCE.

The course traces the development of Arthurian tradition through mediæval chronicles and verse romances, and centers in the study of the sources and significance of Malory's *Morte Darthur*.

Open to students, except freshmen, who have completed or are taking a course of grade I. Three hours a week for the second semester.

MRS. LOOMIS.

208. CHAUCER.

This course traces the development of Chaucer's art. His poetry is studied in relation to its sources, and to the social and literary background of his time. The major portion of his work is read.

Open to students, except freshmen, who have completed or are taking a course of grade I. Three hours a week for the first semester.

MRS. LOOMIS.

209. VERSIFICATION.

The course has as its object in general such study of the principles of English versification as may give to the student of literature a keener appreciation of poetic expression; and, in particular, for those interested in writing verse, opportunity for experiment and criticism.

Open to students, except freshmen, who have completed or are taking one full course in the department of English Literature, and also to those majoring in English Composition. One hour a week for a year.

MISS MANWARING.

210. MODERN POETRY.

This course will undertake to present some of the chief English poets and the most striking developments in English poetry since 1900. It may not be counted toward a major in English Literature.

Open to juniors and seniors without prerequisites. One hour a week for a year.

MISS MANWARING.

301. SOCIAL IDEALS IN ENGLISH LETTERS.

(Not offered in 1933-34.) Study of selected masterpieces from the social point of view. Rapid reading of *Piers Plowman*, More's *Utopia*, Swift's *Gulliver's Travels*; more careful work with Burke and the Revolutionary poets, and with the prose and poetry of the Victorian Age.

Open to seniors who have completed two full courses in English Literature or Economics or History, or who have completed one full course in any of these departments and are taking another course. Three hours a week for a year.

303. CONTEMPORARY DRAMA.

(Not offered in 1933-34.) The modern English drama is considered in relation to parallel European drama. This course may not be counted toward a major in English Literature.

Open to students who have completed two full courses above grade I in the department. Two hours a week for a year.

306. VICTORIAN PROSE.

The course considers distinctive examples of Victorian prose, making a comparatively even division of time between the essay and the novel. The stress in class is laid upon Dickens, Carlyle, Newman, Thackeray, George Eliot, Ruskin, Arnold, Meredith, with briefer study of the minor novelists and some notice of late Victorians.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year.

MR. CAZAMIAN.

307. ENGLISH POETRY OF THE NINETEENTH CENTURY.

The course considers the work of the great Georgian and Victorian poets in their relation to one another and to contemporary thought. Extended study is given to Wordsworth and Coleridge; Shelley and Keats; Tennyson and Browning; with briefer readings from Byron, Scott, Landor, Clough, Arnold, Rossetti, Morris, and Swinburne.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year.

MISS TUELL.

309. SHAKESPEARE.

This course traces the development of Shakespeare as a dramatist and poet. About thirty plays are read in all, chronologically, according to types. The course also considers Shakespeare's life, the theater of his day, representative source problems, and the development of Shakespearean criticism.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year.

MISS BALDERSTON.

310. EIGHTEENTH CENTURY LITERATURE.

This course considers the major writers of the eighteenth century, with the exception of the novelists. In the first semester, the emphasis is upon the Queen Anne group,—Pope, Swift, Addison, and Steele; in the second semester, upon Doctor Johnson and his circle and the precursors of the Romantic Movement. The course traces the influence upon literature of politics, of current ideas concerning man and society, and changing standards of criticism. Some attention is given to the precursors of the romantic movement.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year.

MISS HUGHES.

311. SEVENTEENTH CENTURY EXCLUSIVE OF MILTON.

(Not offered in 1933-34.) This course will be devoted to a somewhat intensive study of certain phases of the century.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year.

312. HISTORY OF THE ENGLISH LANGUAGE.

The course traces the development of the English language from its beginning to the present day, treating phonology, and changes in grammar, and vocabulary. Consideration is given to problems of modern usage. Selected works of English authors which illustrate the various stages in the development of the language are studied.

Open to juniors and seniors who have completed or are taking a full year course or two semester courses of grade II either in English Composition or in English Literature. In some cases other students whose preliminary training has been done in a language other than English may be admitted by special permission. Three hours a week for a year.

MR. SHEFFIELD.

320. STUDIES IN EIGHTEENTH CENTURY LITERATURE.

(Not given in 1933-34.) This course considers eighteenth century literature in relation to social and intellectual movements of the time.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

321. MODERN AUTHORS.

(Not offered in 1933-34.) Two or more authors are chosen each year for special study. The work is carried on by class reading and discussion, and by assigned readings upon which individual reports are made.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

322. ENGLISH ROMANTICISM.

(Not offered in 1933-34.) A study of the Romantic Movement in England, from its beginnings in the eighteenth century, on through the work of the early nineteenth century poets. Certain phases of the relation of English to German literature during the period of reaction are studied.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

323. CRITICAL STUDIES IN ENGLISH DRAMA.

(Not offered in 1933-34.) The course attempts to give training in the methods of literary investigation, through the assignment to each student of special topics.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

324. STUDIES IN AMERICAN LITERATURE.

(Not given in 1933-34.) This course considers the development of American literature from 1825 to 1860 in relation to the social history of the time. It deals primarily with the manifestations of Romanticism in America and with the literary aspect of the agitation for reforms. The magazines of the period receive some attention.

Open to juniors and seniors who have completed a course of grade I, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year.

325. BEGINNINGS OF THE ENGLISH RENAISSANCE FROM CAXTON TO SHAKESPEARE.

(Not offered in 1933-34.) The course aims to give graduate training, and so to present the beginnings of the English Renaissance that the student may rightly estimate the achievements of the great Elizabethans.

Open to graduates, and to approved seniors. Three hours a week for a year.

326. MEDIÆVAL ENGLISH LITERATURE.

(Not given in 1933-34.) Studies in language and literature, with opportunities for independent work.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

327. SEMINAR IN OLD ENGLISH.

(Not offered in 1933-34.) A study of Old English inflections, phonology, and syntax. The reading of the best pieces of literature in Old English prose and poetry. A particular problem in either literature or language is assigned to each student for investigation.

Open to graduates, and to seniors by permission of the department. Three hours a week for a year.

328. BIBLIOGRAPHY.

This course aims to acquaint the graduate student with the chief information and procedure requisite for the discovery and use of her material: examination of original texts, study of editions, use of general works of reference, technical periodicals, and special studies in different fields of English literature.

Not open to undergraduates. Required of graduate students in the Department of English Literature. One hour a week for the first semester. Miss MANWARING.

350. RESEARCH OR INDIVIDUAL STUDY.

On consultation with the department, qualified seniors or graduate students may arrange for directed study in a field in which they have already worked.

Permission to register for this must be obtained before electives are handed in. One to three hours a week for a year. The amount of work contemplated must be indicated at the time of handing in the electives.

For courses in Greek Literature in English translations see Department of Greek.

II. ENGLISH COMPOSITION

<i>Professors:</i>	SOPHIE CHANTAL HART, M.A. (Chairman.) AGNES FRANCES PERKINS, M.A., M.S. ELIZABETH WHEELER MANWARING, PH.D.
<i>Associate Professors:</i>	JOSEPHINE HARDING BATCHELDER, M.A. ALFRED DWIGHT SHEFFIELD, M.A.
<i>Assistant Professor:</i>	EDITH CHRISTINA JOHNSON, PH.D.
<i>Instructors:</i>	EDITH HAMILTON, M.A. LOUISE MACDONALD CHAPMAN, M.A. ENID CONSTANCE STRAW, M.A. MARY ELEANOR PRENTISS, M.A.

101†. REQUIRED FRESHMAN COMPOSITION.

First semester: exposition. Emphasis on structure and on use of source materials. Weekly themes or their equivalent. Second semester: critical and interpretative writing; description; simple narration. Fortnightly themes or their equivalent.

Required of freshmen. Three hours a week for a year.

MISS PERKINS, MISS MANWARING, MISS BATCHELDER, MR. SHEFFIELD,
MISS JOHNSON, MISS HAMILTON, MRS. CHAPMAN,
MISS STRAW, MISS PRENTISS.

102. CONTINUATION COURSE IN COMPOSITION.

Practice in the organization and preparation of ideas developed from the student's reactions to planned reading. Special stress on vocabulary, and on paragraph and sentence, in relation to thinking.

*Required of students who have made D grade in the second semester of course 101.
Three hours a week for the first semester.*

MR. SHEFFIELD.

201. THE ESSAY.

This course traces the development of the English essay through the letter, the character, and other literary forms; and studies such essayists as Lamb, Hazlitt, Stevenson, and Chesterton. Reading in contemporary essays and frequent practice in writing different types of essays, with class discussion of principles and craftsmanship.

*Open to students who have completed the requirement in English Composition.
Not open to students who have completed three semesters of grade II work† or are taking course 203, 206, 301 or 304. Three hours a week for the first semester.*

MISS JOHNSON.

203. STUDIES IN JOURNALISTIC WRITING.

A critical study of selected types of journalistic writing: news story, editorial, special article, book review, dramatic review, as exemplified in typical American and English newspapers and weekly periodicals. Weekly or fortnightly themes.

*Open to students who have completed the requirement in English Composition.
Not open to students who have completed three semesters of grade II work† or are taking course 201, 206, 301 or 304. Three hours a week for the first semester.*

MISS PERKINS, MISS BATCHELDER.

† If a student submits papers notably defective in English as part of her work in any department, she may incur a condition in English Composition, whether or not she has completed the requirement in English Composition.

‡ An exception will be made for students exempted from course 101, who will be permitted to take six hours of grade II.

204. STUDIES IN CONTEMPORARY WRITING.

This course is a continuation either of course 203 or of course 206 or of course 201 or may be elected separately. A study of the essay form, the critical review, the biography, and the sketch. Fortnightly themes or their equivalent.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work ‡ or are taking course 205, 207, 208, 302 or 304. Three hours a week for the second semester.

MISS PERKINS.

205. FURTHER STUDIES IN JOURNALISTIC WRITING.

This course is primarily a continuation of course 203, or may be elected separately. A study of articles in various American and English monthly magazines, with special reference to the suggested use of the student's own resources. Monthly or fortnightly articles, and collateral reading.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work ‡ or are taking course 204, 207, 208, 302 or 304. Three hours a week for the second semester.

MISS PERKINS.

206. FREE WRITING.

Practice in varied types of prose composition adapted to the needs and interests of the individuals in the course. Manuscripts submitted to the constructive criticism of the class.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work ‡ or are taking course 201, 203, 301 or 304. Three hours a week for the first semester.

MISS HAMILTON.

207. FREE WRITING.

Continued, with more sustained pieces of work. Analysis of contemporary material in the different types of writing practiced. Manuscripts submitted to the constructive criticism of the class.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work ‡ or are taking course 204, 205, 208, 302 or 304. Three hours a week for the second semester.

MISS JOHNSON, MISS HAMILTON.

208. STUDIES IN BIOGRAPHY AND LITERARY PORTRAITS.

This course deals with some of the problems and practices that distinguish biography as a developing form of literary art. Emphasis will be placed on the contemporary biographer's way of handling his materials, often as influenced by other fields of expression. This course may follow 201, 203 or 206. Writing varied and frequent.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work ‡ or are taking course 204, 205, 207, 302 or 304. Three hours a week for the second semester.

MISS BATCHELDER.

‡An exception will be made for students exempted from course 101, who will be permitted to take six hours of grade II.

301. NARRATIVE WRITING.

Study of the principles and forms of narrative writing, including the short story. The course aims to lead the student to discover the possibilities of material at her disposal, and to appreciate more fully the qualities of good narrative.

Open to juniors and seniors who have completed the requirement in English Composition. Two hours a week for the first semester.

MISS MANWARING, MISS JOHNSON.

302. SHORT THEMES.

This course may be a continuation of 301 or may be elected separately. By means of a variety of writing, and study of the elements of good prose style, it aims to develop keener sense of the excellences of many kinds of writing. Reading and class discussion of the theory and practice of numerous writers.

Open to juniors and seniors who have completed the requirement in English Composition. Two hours a week for the second semester.

MISS MANWARING, MISS JOHNSON.

303. THE THEORY AND HISTORY OF CRITICISM.

Lectures on the critical theory of Plato and Aristotle and on the more important English and French critics.

Open to juniors and seniors. One hour a week for a year.

MISS HART.

304. ADVANCED COURSE IN ENGLISH COMPOSITION.

Studies in exposition, description, and narration, with one piece of dramatization or an original play. An opportunity will be given once each semester to correct some freshman themes, under the criticism of the instructor. Frequent practice in writing.

Open to seniors who have completed course 203 or 206 or 201 followed by course 204, 205, 207, or 208; or courses 301-302; or, by special permission, course 303. Not open to students who are taking course 301 or 302, or a course of grade II. Three hours a week for a year.

MISS HART.

305. MODERN DRAMA.

This course deals with some of the chief plays produced in English and in other languages from Ibsen to O'Neill. Translations will be used. The emphasis of the course is on the evolution of play-writing technique; its aim is to help students who desire subsequently to write plays or to write dramatic criticism. Frequent writing.

Open to juniors and seniors. Two hours a week for a year.

MISS HART.

350. RESEARCH OR INDIVIDUAL STUDY.

(Not offered in 1933-34.)

Open by permission to juniors and seniors who are taking a course of grade III and a major in the department. One hour a week for a year.

FRENCH

Professors: MARGUERITE MESPOULET, AGRÉGÉE DE L'UNIVERSITÉ.
RUTH ELVIRA CLARK, LITT.D. (Chairman.)

Assistant Professors: DOROTHY WARNER DENNIS, B.A., DIPL.E.U.
MARGUERITE JULIETTE BRÉCHAILLE¹, AGRÉGÉE DE L'UNIVERSITÉ.

Lecturer: FRANÇOISE RUET, M.A., AGRÉGÉE DE L'UNIVERSITÉ.
Instructors: ANDRÉ BRUEL, DOCTEUR DE L'UNIVERSITÉ DE PARIS.
SIMONE DAVID, AGRÉGÉE DE L'UNIVERSITÉ.
EDITH MELCHER, PH.D.

ALICE CAROLINE RENÉE COLÉNO, AGRÉGÉE DE L'UNIVERSITÉ.
ALICE MARGUERITE MARIE MALBOT, LIC. ÈS LET.
MARIE ANTOINETTE QUARRÉ, B.A., C.E.S., DIPL.E.S.

YVONNE TUZET, C.E.S.

All courses beginning with course 101 are conducted in French.

A limited number of qualified students are permitted to spend the junior year in France with the foreign study group of the University of Delaware.

101‡. ELEMENTARY COURSE.

The course includes (1) a practical study of French pronunciation, phonetic drill; (2) the practical study of French grammar; (3) readings on French life and French institutions; (4) selected readings from modern writers. Constant oral drill and frequent written work.

Open to students who do not present French for admission. Three hours a week for a year.

MISS DENNIS.

102‡. INTERMEDIATE COURSE. FRENCH PHONETICS, SYNTAX, COMPOSITION;
READINGS FROM CONTEMPORARY AUTHORS OF NOTE; EXERCISES IN
SPEAKING; WRITING FROM DICTATION.

The course includes (1) a practical study of French pronunciation with phonetic drill; (2) a systematic review of syntax introductory to theme writing and oral narrative; (3) selected readings from modern writers. Constant oral drill and frequent written work.

Open to students who have completed course 101, or present two units in French for admission. Three hours a week for a year. Miss Dennis, Miss Melcher.

103. THIRD FRENCH COURSE.

The aim of this course is to prepare students for more advanced work in language and in literature. The course includes a careful study of pronunciation, vocabulary, grammar, varied reading selected from literary masterpieces and application of the *lecture expliquée* methods. It affords opportunity for constant practice in the written and the spoken language. Frequent exercises and themes. Outside reading of representative novels.

Open to students who present three units in French for admission or have completed course 102. Three hours a week for a year.

MISS BRUEL, MISS CLARK, MRS. DAVID, MISS MELCHER, MISS COLÉNO,
MISS MALBOT, MISS QUARRÉ, MISS TUZET.

¹Absent on leave.

‡ Candidates for the degree under the old curriculum may not count French 101 toward the B.A. degree if taken after the sophomore year, nor French 102 if taken after the junior year. French 101 and German 101 may not both be counted toward the B.A. degree.

201. FRENCH CIVILIZATION BEFORE THE REVOLUTION.

An introduction to the civilization of France, as revealed in history, art and selected literary masterpieces. Emphasis is laid on language as a preparation for later courses. Class discussion, oral reports, frequent written work.

Open to students who have completed course 103, or present four units in French for admission, and, on recommendation of the department, to students who have completed course 102 or another three-hour course of grade II. Three hours a week for a year. MISS DENNIS, MISS RUET.

202. COMPOSITION, TRANSLATION, GRAMMAR.

First course. Weekly written work. The object of the course is to provide additional practice in the written and spoken language.

Open to students who have completed course 103 or present four units for admission, and on special recommendation of the department, to students who are taking course 103. One hour a week for a year. MISS CLARK, MISS QUARRÉ.

205. COMPOSITION, TRANSLATION, GRAMMAR.

Second course. The work of the course is on the same lines as in course 202, but more advanced in nature.

Open to students who have completed course 202, and to other students on recommendation of the department. One hour a week for a year. MISS QUARRÉ.

203. HISTORY OF FRENCH LITERATURE.

A survey course, with illustrative reading. Intended primarily for students who do not expect to major in French. More ground is covered than in course 204. Class discussion of selected masterpieces, short papers, outside reading. First semester: a brief study of the Middle Ages and the Renaissance; the seventeenth century; second semester: the eighteenth century and the first half of the nineteenth.

Open to approved students who have completed course 103 and exceptionally, on recommendation of the department, to students who have completed course 102 or course 201. This course is not open to students who have completed or are taking course 204. Three hours a week for a year. MISS BRUEL, MISS MELCHER.

204. HISTORY OF FRENCH LITERATURE.

Intended primarily for students who expect to major in French with emphasis on method rather than on comprehensiveness, in view of further work. A study of representative French authors of the Middle Ages, the Renaissance (the texts used are modern French), the seventeenth and eighteenth centuries. Brief papers, lecture expliquée, class discussion, outside reading.

Open to approved students who have completed course 103 and who intend to major in French, and, exceptionally, on recommendation of the department, to students who have completed course 201. This course is not open to students who have completed or are taking course 203. Three hours a week for a year. MISS RUET, MISS COLÉNO, MISS MALBOT.

301. THE CLASSICAL PERIOD OF FRENCH LITERATURE.

The main object of the course is the study of the development of French classical literature and of French society. The authors studied are: Malherbe.

Descartes, Pascal; La Rochefoucauld, La Bruyère, Bossuet, Fénelon; Corneille, Racine, Molière; Madame de Sévigné, Madame de Lafayette; La Fontaine, Boileau. Outside reading, brief papers.

Open to students who have completed course 201 at a grade of at least C, or course 203 or 204 and who have not already taken a three-hour course of grade III, and to seniors who have completed or are taking three hours of grade II. Three hours a week for a year.

MRS. DAVID, MISS TUZET.

302. EIGHTEENTH CENTURY LITERATURE.

The aim of this course is to trace the development of the esprit philosophique, and to show the evolution of ideals in this century. While other authors will be taken up, the course will stress the works of Montesquieu, Voltaire and Rousseau. Class discussion of selected masterpieces, oral reports, short papers.

Open to juniors and seniors who have completed course 203 or 204. Three hours a week for a year.

MISS CLARK.

303. SPECIAL STUDIES IN THE NINETEENTH AND TWENTIETH CENTURIES.

(Not given in 1933-34.) Intensive study of a group of important works or some fundamental problems of either period.

Open to juniors and seniors who have completed course 301 or 302 or 305 and, exceptionally, on special recommendation of the department, to juniors and seniors who have completed course 203 or 204. Three hours a week for the second semester.

MISS MESPOULET.

304. CONVERSATION.

A conversation course based on the reading of contemporary regional novels on Brittany, Normandy, Touraine, Béarn, Provence, etc.

Open to juniors and seniors who have completed or are taking a three hour course of grade II, and, on recommendation of the department, to sophomores who have completed a three hour course of grade II. Two hours a week for the first semester.

MISS MESPOULET, MISS TUZET.

309. CONVERSATION.

The work of the course is the same as in 304 but other novels will be assigned.

Open to juniors and seniors who have completed or are taking a three hour course of grade II, to students who have completed course 304, and, on recommendation of the department, to sophomores who have completed a three hour course of grade II. Two hours a week for the second semester.

MISS MESPOULET, MISS TUZET.

305. INTENSIVE READING.

The work of this course will consist of the intensive study of one subject. In 1933-34, the subject chosen will be: History of the French Novel with special emphasis on the evolution of the "genre."

Open to juniors and seniors who have completed course 203 or 204 or who are taking a course of grade III. Three hours a week for a year.

MISS BRUEL.

306. NINETEENTH CENTURY LITERATURE. ROMANTICISM.

A study of the romantic movement in French literature, and in particular of the great novelists and poets of that period: Lamartine, Vigny, Victor Hugo,

Musset, Chateaubriand, Mme. de Staél, Benjamin Constant, Balzac, Fromentin, Stendhal, Barbey d'Aurevilly.

Open to juniors and seniors who have completed course 301 or 302 or 305, and, on recommendation of the department, to students who have completed course 203 or 204. Three hours a week for a year. MISS MESPOULET, MISS COLÉNO.

307. CONTEMPORARY FRENCH LITERATURE.

I. The evolution of French poetry from Baudelaire down to the present day, with special studies of Baudelaire, Rimbaud, Verlaine, de Régnier, Claudel, Valéry, Max Jacob, etc. II. The masters of French prose during the same period such as Léon Bloy, Gide, Proust, Giraudoux, Mauriac, Morand, Cocteau, Lacretelle, etc.

Open to seniors who have completed course 301 or 302 or 305 or 306, and, exceptionally, on special recommendation of the department, to seniors who have completed course 203 or 204. Three hours a week for a year. MISS MESPOULET.

308. STUDIES IN LANGUAGE.

Advanced composition and translation.

Open to juniors and seniors who are taking a course of grade III, and, on recommendation of the department, to juniors and seniors who have completed a course of grade II. Two hours a week for the first semester. MISS RUET, MISS QUARRÉ.

310. STUDIES IN LANGUAGE.

The aim of this course is the same as in 308 but different subjects and texts will be studied.

Open to juniors and seniors who are taking a course of grade III, or have completed course 308, and, on recommendation of the department, to juniors and seniors who have completed a course of grade II. Two hours a week for the second semester. MISS RUET, MISS QUARRÉ.

350. RESEARCH OR INDIVIDUAL STUDY.

Study of the works and personality of the great masters of the Romanticist period or the contemporary period.

Open by permission of the department to properly qualified juniors and seniors who are taking course 306 or 307. Three hours a week for the first semester. MISS MESPOULET.

321. OLD FRENCH.

(Not offered in 1933-34.)

Open to graduate students who have completed twelve year-hours of college French, and, on recommendation of the department, to seniors who have completed the same amount of work. Three hours a week for a year.

GEOLOGY AND GEOGRAPHY

Professor: MARY JEAN LANIER, PH.D. (Chairman.)
Associate Professor: MARGARET TERRELL PARKER, M.A.
Assistant Professor: LOUISE KINGSLEY, PH.D.
Lecturer: RUSSELL GIBSON, PH.D.
Instructor: HARRIET ELIZABETH LEE, M.A.
Assistant: ELIZABETH RICHARDS ROY, M.A.

101. GENERAL GEOLOGY.

First Semester—Physiography. A study of the work which wind, waves, rivers, glaciers, volcanoes, and earth movements have done and are doing to shape the earth's surface. This study explains the origin of hills and valleys, of plains, plateaus and mountains, of continents and ocean basins, and makes clear the ways in which these surface features have affected man's life. Second Semester—Historical Geology. The origin of the earth and the evolution of the earth and the life on it from the time of its origin until the present.

Open to all undergraduates. Six periods a week: in general, three of lecture or discussion and three of laboratory or field work, counting three hours a week for a year.

MISS LANIER, MISS PARKER, MISS KINGSLEY,
 MISS LEE, MRS. ROY.

GEOLOGY

202. MINERALOGY.

A study of the minerals which are noteworthy either because they are essential constituents of rocks, or because they are of value economically. The treatment will include a study of the principles of crystallography; the sight recognition of minerals by means of their physical properties; the determination of minerals by means of blowpipe analysis; the mode of occurrence of those minerals; the uses to which they are put industrially.

Open to students who have completed Geology 101 or Chemistry 101. Two three-period appointments a week for lecture or laboratory work, counting three hours a week for the second semester.

MR. GIBSON, MISS LEE.

207. ADVANCED GEOLOGY.

A more advanced study than can be undertaken in course 101 of various problems in geology, chiefly structural and dynamic. Such topics as sedimentation, folding, fracturing, earthquakes, vulcanism and metamorphism, theories as to the earth's age and origin are given detailed treatment.

Open to students who have completed course 101. One three-period appointment and an additional one-period appointment. In general, two periods will be used for lecture or discussion and two for laboratory work. Occasional field trips will be substituted for laboratory work. The course counts three hours a week for the first semester.

MR. GIBSON, MISS KINGSLEY.

301. FIELD GEOLOGY.

An introduction to the methods of field study. The course is designed to train the student to make a topographic map, and to interpret and map the geology of a region.

Open to juniors and seniors who have completed course 101, and course 202 or 207. One three-period lecture or laboratory appointment, or one afternoon in the field, with independent field work related to the student's special problem. The course counts three hours a week for the second semester.

MR. GIBSON.

306. PALÆONTOLOGY.

The course deals with the facts and problems of organic evolution, as revealed by the life of past geologic ages. By means of a study of fossils, the steps in the development from simple, generalized life forms to more complex and specialized types are traced. The effects of physical environment upon life development are emphasized.

Open to juniors and seniors who have completed Geology 101 and either Zoölogy 101 or Botany 101 or a course of grade II in Geology. Juniors and seniors majoring in Zoölogy may be admitted to the course upon the recommendation of the two departments. One three-period appointment for lectures, class discussion, and laboratory work, with independent laboratory assignments, counting three hours a week for the first semester.

MISS KINGSLEY.

311. ECONOMIC GEOLOGY.

A study of the origin, composition, and location of economically valuable mineral deposits. The lectures and readings are directed toward familiarizing the student with both metallic and non-metallic mineral deposits in their general mineralogical and geological relations.

Open to juniors and seniors who have completed course 202. One three-period appointment and an additional one-period appointment. In general, two periods will be used for lecture or discussion and two for laboratory work. The course counts three hours a week for the first semester.

MR. GIBSON, MISS LEE.

312. CRYSTALLOGRAPHY.

(Not given in 1933-34.) The course deals mainly with optical crystallography and the application of optical crystallography to the study of minerals. The laboratory work consists of the determination of minerals by means of their optical constants.

Open to juniors and seniors who have completed Geology 202. Juniors and seniors majoring in Chemistry or in Physics may be admitted to the course upon the recommendation of the two departments concerned. Two two-period appointments a week for lecture and laboratory work, counting three hours a week for the first semester.

MISS KINGSLEY.

313. PETROGRAPHY.

This course includes the identification of rocks by means of a study of thin sections with the petrographical microscope, and aims to give the student an elementary knowledge of the origin and composition of rocks.

Open to juniors and seniors who have completed courses 207 and 312. Two two-period appointments a week for lecture and laboratory work, counting three hours a week for the second semester.

MISS KINGSLEY.

321. PROBLEMS IN GEOLOGY.

This course is designed to give students training in independent investigation. Individual problems are assigned and reports to the instructor are made at regular intervals.

Open to graduate students and by permission to seniors who are majoring in Geology. Three hours a week for a semester or for a year. MR. GIBSON.

350. RESEARCH OR INDIVIDUAL STUDY.

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies.

Open by permission of the department to juniors and seniors who are majoring in the department. Three hours a week for a semester or for a year.

GEOGRAPHY**208. THE GEOGRAPHY OF EUROPE.**

A study of man's adjustment to physical environment in Europe. The topography of Europe is explained in the light of the geologic history of the continent. The basic principles controlling European climate are considered. These studies are used as the background for understanding the early rise of civilization in Europe, the distribution of races, the origin of the various political units, and the economic development of Europe as a whole. Certain selected nations are then given further detailed study.

Open to juniors and seniors, and to sophomores who have completed course 101 or who are majoring in History. Three hours a week for the first semester.

MISS PARKER.

209. THE ECONOMIC GEOGRAPHY OF NORTH AMERICA.

A study of man's economic activities as related to environmental factors in the major geographic regions of North America. The objective of the course is to develop a clear conception of the elements of the natural environment, such as climate, topography, soils, surface and underground waters, mineral resources, native vegetation, and to emphasize in the regions studied the important adjustments which man has made to these elements.

Open to juniors and seniors, and to sophomores who have completed course 101 or who are majoring in History. Three hours a week for the second semester.

MISS LANIER.

304. THE GEOGRAPHY OF SOUTH AMERICA.

A study of the physiographic features, climates, and resources of South America; the influence of these factors upon the colonization of the continent by Europeans, upon the formation of independent political units, and upon the present and possible future economic development of the various countries.

Open to juniors and seniors who have completed course 101 and a course of grade II in the department; by permission to students of South American history. Three hours a week for the first semester.

MISS LANIER.

307. THE HISTORICAL GEOGRAPHY OF THE UNITED STATES.

An analysis of the relations between the natural environment and the settlement and development of the country. The adjustments to varied environ-

ments in connection with the westward expansion of the American people. An interpretation in selected areas of readjustments made from time to time in response to the changing significance of some element or elements in the environment. A geographic background to American history.

Open to juniors and seniors who have completed course 209, and by permission to students of American history. Three hours a week for the first semester.

MISS LANIER.

308. PROBLEMS IN THE GEOGRAPHY OF EURASIA.

A geographic study of selected regions of the Eurasian continent (exclusive of countries given detailed treatment in course 208). Students will interpret independently in so far as possible the human response to physical environment in each region. The course gives opportunity to apply independently geographic principles developed in earlier regional courses, as well as to gain familiarity with new territory and to study interesting contrasts between oriental and western civilizations.

Open to juniors and seniors who have completed course 208. Three hours a week for the second semester.

MISS PARKER.

309. CLIMATES OF THE WORLD.

A course designed to give an understanding of the major types of climate and of their distribution in the several continents; to show the significance of climate as a factor in the economic activities of a region and in the trade between different regions.

Open to juniors and seniors who have completed at least one regional course in geography. Three hours a week for the second semester.

MISS LEE.

305. SEMINAR IN GEOGRAPHY.

The course begins with a study of the methods of individual research. Early in the course a selected topic is assigned to each student for investigation and reports of the individual work are presented weekly.

Open to graduate students and to approved seniors. Three hours a week for the second semester.

MISS PARKER.

350. RESEARCH OR INDIVIDUAL STUDY.

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies.

Open by permission of the department to juniors and seniors who are majoring in the department. Three hours a week for a semester or for a year.

GERMAN

Professor: NATALIE WIPPLINGER, PH.D. (Chairman.)
Associate Professor: MARIANNE THALMANN, PH.D.
Instructors: OLGA STEINER, M.A.
 JOHANNA ELISABETH VOLBEHR.
 BARBARA SALDITT, PH.D.
 MARGARET JEFFREY, PH.D.
Assistant: JEANNETTE ROMAN, B.A.

The language of the classroom in all courses is almost exclusively German.

101‡. ELEMENTARY COURSE. GRAMMAR, READING, ORAL AND WRITTEN EXERCISES.

The texts used in this course are made the basis for a study of grammatical forms and rules, for speaking exercises and composition work.

Open to students who do not present German for admission. Three hours a week for a year.
 MISS STEINER, MRS. VOLBEHR, MISS SALDITT,
 MISS JEFFREY, MISS ROMAN.

102‡. ELEMENTARY COURSE. READING, FREE REPRODUCTION, WRITTEN AND ORAL EXERCISES, SHORT THEMES, MEMORIZING OF POEMS.

Open to students who have completed course 101 or present two units in German for admission. Three hours a week for a year.

MISS THALMANN, MISS STEINER, MRS. VOLBEHR, MISS JEFFREY.

103. GRAMMAR AND COMPOSITION.

Review of elementary grammar and study of more advanced grammar.

Open to freshmen who present three units in German for admission, and required in connection with course 104. Course 103 cannot be taken without course 104. One hour a week for a year.
 MRS. VOLBEHR.

104. OUTLINE HISTORY OF GERMAN LITERATURE.

The object of this course is to furnish the student with the vocabulary necessary for the reading and discussion of literature, and to give her a general historical background for the more detailed study of German literature in subsequent courses.

Open to freshmen who present three units in German for admission, and required in connection with course 103. Course 104 cannot be taken without course 103. Two hours a week for a year.
 MRS. VOLBEHR.

201. GRAMMAR AND COMPOSITION.

The aim of this course is to give the student practice in oral and written expression.

Open to students who have completed course 102, and required of those taking course 202. Course 201 cannot be taken without course 202. One hour a week for a year.
 MISS WIPPLINGER, MISS STEINER, MISS SALDITT.

‡ Candidates for the degree under the old curriculum may not count German 101 toward the B.A. degree if taken after the sophomore year, nor German 102 if taken after the junior year. German 101 and French 101 may not both be counted toward the B.A. degree.

202. HISTORY OF GERMAN LITERATURE.

The course consists of discussions, reading, and occasional lectures on the history of German literature before Goethe. The aim of the course is to trace the parallel development of the language, literature, social conditions, and religious ideals of the times.

Open to students who have completed course 102, and required in connection with course 201. Course 202 cannot be taken without course 201. Two hours a week for a year.

MISS WIPPLINGER, MISS STEINER, MISS SALDITT.

204. SCHILLER'S LIFE AND WORKS.

(Introductory Course.) Lectures, discussions. Study of Schiller's life and some of his important dramatic works.

Open to students who have completed courses 103, 104, or 201, 202. Three hours a week for the first semester.

MISS THALMANN, MISS STEINER.

205. GOETHE'S LIFE AND WORKS.

(Introductory Course.) Lectures, discussions. Study of the principal characteristics of Goethe's life and works to the time of his literary co-operation with Schiller.

Open to students who have completed courses 103, 104, or 201, 202. Three hours a week for the second semester.

MISS WIPPLINGER, MISS SALDITT.

206. GRAMMAR, COMPOSITION, IDIOM.

First course.

Open to students who have completed courses 102, 103, 104, or on special recommendation to those who have completed course 101. One hour a week for a year.

MRS. VOLBEHR.

207. GRAMMAR, COMPOSITION, IDIOM.

Second Course. This course is designed to aid the student in acquiring a larger working vocabulary. Modern German texts are used as a basis of study. Constant oral and frequent written practice.

Open to students taking other work in German, who have completed courses 201, 202, 206, and by special permission to those who have completed courses 103, 104. One hour a week for a year.

MRS. VOLBEHR.

301. GERMAN NOVEL.

Historical development of the German novel since Goethe.

Open to juniors and seniors who have completed or are taking three hours of grade II. Three hours a week for the first semester.

MISS THALMANN.

302. HISTORY OF THE GERMAN LANGUAGE.

(Not offered in 1933-34.) This course aims to give a fuller and more thorough understanding of modern German through the study of its historical development.

Open to juniors and seniors who have completed three hours of grade II and are taking other work in German. Three hours a week for the second semester.

303. MIDDLE HIGH GERMAN.

(Introductory Course.) (Not offered in 1933-34.) Survey of Middle High German forms and sounds. Translation of Middle High German epic and lyric poetry into the modern idiom.

Open to juniors and seniors who have completed at least three hours of grade II. Three hours a week for the second semester.

304. GOETHE'S FAUST, PART I.

Study of the pre-Goethean development of the Faust legend in its more important literary forms. Close study of the text of Goethe's *Faust*, Part I.

Open to juniors and seniors who have completed courses 204, 205. Three hours a week for the first semester. MISS WIPPLINGER.

305. THE GERMAN ROMANTIC SCHOOL.

A study of the development and spirit of the German Romantic School.

Open to juniors and seniors who have completed course 304. Three hours a week for the second semester. MISS WIPPLINGER.

306. LESSING AS DRAMATIST AND CRITIC.

(Not offered in 1933-34.) Treatment of Lessing's critical work in literature, theology and aesthetics.

Open to juniors and seniors who have completed course 304. Three hours a week for the second semester. MISS SALDITT.

307. GOETHE, ADVANCED COURSE.

(Seminary Course.) Study of Goethe's lyrics, ballads, later dramas, parts of *Faust II*, *Wilhelm Meister*.

Open to seniors who have completed course 304. Three hours a week for the first semester. MISS WIPPLINGER.

308. NINETEENTH CENTURY DRAMA.

(Seminary Course.) Special study of Kleist, Grillparzer, Hebbel, Ibsen, Hauptmann, Schnitzler, Hofmannsthal, Strindberg, Wedekind; their relation to classic and romantic art, and to the social and philosophical problems of the century.

Open to seniors who have completed course 304. Three hours a week for the second semester. MISS THALMANN.

309. SCHILLER AS PHILOSOPHER AND WRITER ON AESTHETICS.

(Seminary Course.) (Not offered in 1933-34.) Study of Schiller through his correspondence with Körner, Goethe, etc., and through his philosophic poems and essays.

Open to seniors who have completed course 204 and at least three hours of grade III. Three hours a week for the first semester.

310. GOTHIC.

(Not offered in 1933-34.)

Open to graduates and to seniors by permission of the instructor. Three hours a week for the second semester.

311. GERMAN LYRIC POETRY IN THE NINETEENTH AND TWENTIETH CENTURIES.

Open to juniors and seniors who have completed or are taking three hours of grade II in the department. Three hours a week for the second semester.

MISS THALMANN.

350. RESEARCH OR INDIVIDUAL STUDY.

(Not offered in 1933-34.)

Open by permission to juniors and seniors who are taking a course of grade III in the department. One or two hours a week for a year. The amount of work contemplated must be indicated at the time of handing in electives.

GREEK

Associate Professor: HELEN HULL LAW, Ph.D. (Chairman.)

Assistant Professor: BARBARA PHILIPPA McCARTHY, Ph.D.

101. BEGINNING GREEK.

The aim of the course is to cover in one year the fundamental facts of Greek grammar with practice in reading and writing. The text-book is Crosby and Schaeffer's *An Introduction to Greek*. The Greek reading includes selections from the great writers of prose and poetry.

Open to students who do not present Greek for admission. Three hours a week for a year.

MISS LAW, MISS McCARTHY.

201. PLATO.

Apology, Crito and selections from other dialogues.

Open to students who have completed course 101 or present two or three units in Greek for admission. Three hours a week for the first semester.

MISS McCARTHY.

205. HOMER.

Selected books of the Iliad.

Open to students who have completed courses 101 and 201 or present two units in Greek for admission and have completed course 201, and to others on recommendation of the department. Three hours a week for the second semester.

MISS McCARTHY.

202. HOMER.

Selected books of the Odyssey or other material selected to meet the needs of the class.

Open to students who present three units in Greek for admission and have completed course 201, and to those who have completed course 205. Three hours a week for the second semester.

MISS LAW.

203. GREEK LITERATURE IN ENGLISH TRANSLATIONS.

The class will read in translation selections from the works of the Greek poets, from Homer to Theocritus. Lectures on the development of Greek literature

and class-discussions will accompany the reading. Special emphasis will be placed upon Greek drama, and as many plays as possible will be read and studied. This course may not be counted toward a major in Greek.

Open to juniors and seniors. Three hours a week for the first semester.

MISS LAW.

204. CLASSICAL MYTHOLOGY.

The more important myths of the classical period will be studied in relation to the literature, art and religion of ancient times and their influence on the literatures of succeeding periods. This course may not be counted toward a major in Greek.

Open to juniors and seniors. Three hours a week for the second semester.

MISS LAW.

206. WRITING OF GREEK.

(Not given in 1933-34.) Review of the essentials of grammar and syntax. Written exercises based on prose selections to be read at sight in class.

Open to students who have completed course 101 and are taking another course in the department other than courses 203 and 204. Three hours a week for the second semester.

301. GREEK DRAMA.

Reading and study of dramas of Æschylus, Sophocles, Euripides and Aristophanes.

Open to students who have completed course 201 and either course 205 or 202. Three hours a week for a year.

MISS LAW.

302. GREEK POETRY FROM HOMER THROUGH THEOCRITUS.

This course includes non-Homeric epic, elegiac, lyric and pastoral poetry.

Open to students who have completed or are taking course 301. By permission of the department students may elect either semester of Greek 302 as a semester course. Three hours a week for a year. In 1933-34 given for the first semester only.

MISS McCARTHY.

305. MODERN GREEK.

(Not given in 1933-34.) The course will trace briefly the development of the language to the present time with practice in speaking and writing the Greek of today.

Open to students who are taking another course of grade III in the department, and to others by permission of the department. One hour a week for a year.

307. GREEK PROSE OF THE FIFTH AND FOURTH CENTURIES.

This course will include a general survey of the prose writing of the fifth and fourth centuries. The reading in Greek will be largely from the histories of Herodotus and Thucydides and the *Republic* of Plato.

Open to students who have completed course 301. By permission of the department students may elect either semester of Greek 307 as a semester course. Three hours a week for a year.

MISS McCARTHY.

For courses in the study of Greek Testament see Biblical History.

GROUP LEADERSHIP

Associate Professor: ALFRED DWIGHT SHEFFIELD, M.A.

201. LEADERSHIP IN ORGANIZED GROUPS.

A study of the processes of thought and expression by which clubs, conferences, and committees deal with current problems in the community. The work will be based partly on the records of group experience in Christian Associations, civic and philanthropic boards, industrial joint councils, and adult education projects, partly on guided observations of current organizational procedures, and partly on readings in social psychology.

Open to seniors, and to juniors and sophomores who have completed, or are taking, Economics 101 or a course of grade I in History and Political Science. Three hours a week for a year.

MR. SHEFFIELD.

HISTORY AND POLITICAL SCIENCE

Professors: JULIA SWIFT ORVIS, PH.D.
ELISABETH HODDER, PH.D. (Chairman.)
EDNA VIRGINIA MOFFETT², PH.D.

Associate Professors: EDWARD ELY CURTIS, PH.D.
BARNETTE MILLER, PH.D.
JUDITH BLOW WILLIAMS, PH.D.

LOUISE OVERACKER, PH.D.

Lecturer: GERTRUDE RANDOLPH BRAMLETTE RICHARDS, PH.D.
Instructors: ELSIE VAN DYKE DE WITT, M.A.

Assistant: DOROTHY TRAUTWEIN, M.A.
DOROTHY KNEELAND CLARK, M.A.

HISTORY

101. MEDIEVAL AND RENAISSANCE EUROPE.

Beginning with a discussion of Rome's legacy to Europe, this course includes the study of such topics as the Mediæval Church, feudal society, Mohammedanism and the Crusades, mediæval towns and guilds, the development of commerce and banking, the intellectual awakening of the thirteenth century, the Renaissance of Art and Literature, the age of exploration and early colonization, the Protestant movement, and the foundation of modern European nations.

Open to all undergraduates. This course or course 102 is prerequisite to later election. Three hours a week for a year.

MISS ORVIS, MRS. HODDER, MISS DE WITT.

102. MODERN EUROPEAN HISTORY.

After a survey of conditions in the second half of the seventeenth century, this course will trace the leading movements in the development of modern Europe, such as French and English colonial expansion in the eighteenth century, the Industrial Revolution, the French Revolution, the Liberal and Nationalist movements of the nineteenth century, the emergence of the modern British Empire, the unification of Italy and Germany, and the Great War.

Open to all undergraduates. This course or course 101 is prerequisite to later election. Three hours a week for a year.

MISS MILLER, MISS WILLIAMS, MISS DE WITT, MISS RICHARDS.

² Absent on Sabbatical leave.

201. HISTORY OF EUROPE SINCE THE FRENCH REVOLUTION.

(Not given in 1933-34.) This course involves (1) an introductory discussion of the condition of France on the eve of the Revolution; (2) a study of the progress of the Revolution and of the reaction against democratic tyranny culminating in imperialism; (3) a study of the influence of revolutionary ideas in the subsequent history of Europe. Lectures, readings, and class discussion.

Open to sophomores, juniors, and seniors who have completed one full course in History. Three hours a week for a year.

MISS ORVIS.

203.† THE HISTORY OF GREECE.

(Not offered in 1933-34.) This course will open with a brief survey of the oriental civilizations by which the Greeks were influenced. A study of the social, economic, and political development of the Greek State will follow, and with this as a foundation Greek civilization in its most significant aspects will be considered.

Open to students who have completed one college course in History and, without prerequisites, to those who are giving special attention to the Classics. Three hours a week for a year.

MRS. HODDER.

204.† HISTORY OF ROME.

This course offers a general survey of Roman History. The conclusions of modern archæologists and historians with regard to the earlier period are studied, but the main emphasis is placed upon Rome's experiments in government, the attempts of her statesmen to solve the social and economic problems of the Republic, and the Empire, and upon the development of Rome's legacy to the modern world.

Open to sophomores, juniors, and seniors who have completed one college course in History, and without prerequisite to those who are giving special attention to Latin, Greek, or Economics. Three hours a week for a year.

MRS. HODDER.

205. COLONIAL AMERICA.

This course deals with the foundation and growth of the British empire in America. Emphasis is laid upon British colonial policy and administration, and upon the causes and course of the American Revolution. Lectures, discussions, and library readings.

Open to sophomores, juniors, and seniors who have completed or are taking a full course in History. Three hours a week for the first semester.

MR. CURTIS.

207. GEOGRAPHY IN EUROPEAN HISTORY.

(Not offered in 1933-34.) This is not a course in Geography, but in History. Emphasis, however, is laid on geographical setting, and on the influence of Geography on national boundaries, governmental development, economic independence, trade relations, and the life and culture of the people within certain areas.

Open to seniors without prerequisite, and to other students who have completed or are taking one full course in History, or Geography 208. Three hours a week for the first semester.

MISS MOFFETT.

†Course 203 will usually alternate with course 204.

208. INTERNATIONAL POLITICS: THE NEAR EAST.

A general view of international relations in the Near East since the Congress of Berlin, with special reference to treaty settlements since 1918, and to present conditions.

Open to students who have completed one full course in History. Three hours a week for the first semester. MISS MILLER.

209. POLITICAL HISTORY OF RUSSIA FROM THE EARLIEST TIMES TO THE PRESENT.

(Not offered in 1933-34.) This course includes a study of (1) the forces which made Russia a world power, (2) the development and policy of the autocracy, and (3) the struggle for freedom, culminating in the revolution of 1917, and (4) the existing régime.

Open to all seniors, and to juniors who have completed or are taking another course in History. Three hours a week for the first semester. MISS ORVIS.

210. MEDIÆVAL LIFE AND INSTITUTIONS.

(Not offered in 1933-34.) The aim of the course is to show the points of contact and of difference between the modern spirit and the mediæval, as well as to serve as a background for the study of modern history, or of mediæval art or literature. A few mediæval sources are read.

Open to students who have completed course 101 or 102. Three hours a week for a year. MISS MOFFETT.

213. HISTORY OF ENGLAND AND GREATER BRITAIN.

A general survey of English History with especial emphasis upon those political, social, and economic forces which have led to the expansion of England and to the position and problems of the British Empire of today.

Open to sophomores, juniors and seniors who have completed one full course in History. Three hours a week for a year. MISS WILLIAMS.

214. THE RISE OF THE LATIN-AMERICAN REPUBLICS.

After surveying the exploration and conquest of the New World by the Spaniards, this course treats Spanish colonial policy with a view to explaining the causes of the revolutionary movement. The latter part of the course is devoted to the wars of liberation and the emergence of the present republics.

Open to students who have completed one full course in History. Also open without prerequisite to sophomores, juniors, and seniors, who are majoring in Spanish, and to students who have completed or are taking Geography 304. Three hours a week for the second semester. MR. CURTIS.

215. INTERNATIONAL POLITICS: THE FAR EAST.

A study of the Orient in the nineteenth and twentieth centuries, with special reference to the commercial interests of Europe and America.

Open to students who have completed one full course in History. Three hours a week for the second semester. MISS MILLER.

301. HISTORY OF THE UNITED STATES FROM 1787 TO THE PRESENT TIME.

A study of the formation and development of the constitution of the United States, with special reference to controlling forces, such as the organization of

parties, the growth of democracy, the rise of the slave power, the political effect of the development of the West. Lectures, discussions, and library readings.

Open to juniors and seniors who have completed one full course and have completed or are taking a second course in History. Three hours a week for a year.

MR. CURTIS.

302†. EUROPE IN RENAISSANCE AND REFORMATION.

A study of the intellectual, religious, and social life of the fifteenth and sixteenth centuries. In the first semester the Renaissance in Italy and France is emphasized, and in the second semester the Reformation and the Age of Elizabeth.

Open to juniors and seniors who have completed two full courses in History, or one course in History and two courses in Art. Three hours a week for a year.

MISS RICHARDS.

304. ENGLAND UNDER THE TUDORS AND STUARTS.

This course deals with the Renaissance and Reformation in England, with Puritanism and the accompanying democratic ideals, with the constitutional struggles of the sixteenth and seventeenth centuries, and with those social and economic changes that were initial to the founding of the British Empire.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.

MRS. HODDER.

305. DIPLOMATIC HISTORY OF EUROPE SINCE 1740.

This course includes (1) a review of the period 1648-1740; (2) the age of Frederick II; (3) a survey of the Revolutionary and Napoleonic period; (4) the age of Bismarck and its results.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.

MISS ORVIS.

306. ENGLISH HISTORY IN THE NINETEENTH CENTURY.

After a survey of conditions in England in the latter half of the eighteenth century, this course will study the political, social, and intellectual history of England in the nineteenth century, with special emphasis upon Victorian England. It will conclude with a short discussion of recent problems.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.

MISS WILLIAMS.

307. AMERICAN FOREIGN RELATIONS.

This course deals with the most significant diplomatic problems which have arisen as the result of war, westward expansion, the growth of foreign commerce, immigration, and the acquisition of colonial possessions. The origin of important treaties, the development of the Monroe Doctrine, and the evolution of the United States into a world power will be traced. Lectures, discussions, and library readings.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year.

MR. CURTIS.

† Course 302 will usually alternate with course 309.

308. IMPERIALISM IN WORLD POLITICS.

(Not offered in 1933-34.) A study of European expansion in Asia, Africa, and the Islands of the Pacific in the nineteenth and twentieth centuries; of colonial and imperial systems and problems; and of international politics as related to the control of raw materials, international finance, and imperial communications.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year. MISS MILLER.

309†. SELECTED STUDIES IN MEDIÆVAL HISTORY.

(Not offered in 1933-34.) The course is designed to give training in methods of historical research, using the mediæval period as a field.

Open to graduates, seniors and approved juniors who have completed two full courses in History. Three hours a week for a year. MISS MOFFETT.

311. SOCIAL AND CULTURAL HISTORY OF EUROPE.

(Not offered in 1933-34.) A course in the evolution of civilization, tracing the development of culture from early times through the rise of the Mediterranean civilizations, the Middle Ages, the Renaissance and modern times, and covering the more important phases of social, economic, and intellectual life.

Open to juniors and seniors who have completed two full courses in History. Three hours a week for a year. MISS WILLIAMS.

350. RESEARCH OR INDIVIDUAL STUDY.

By consultation with the department students may arrange for from one to three hours of individual work. Permission for this must be obtained before handing in electives.

Open to juniors and seniors who have completed or are taking a course of grade III in the department. One to three hours a week for a year. The amount of work contemplated must be indicated at the time at which electives are due.

POLITICAL SCIENCE

104. INTRODUCTION TO POLITICAL SCIENCE.

Fundamental political conceptions developed through a study of the governments of the United States, Great Britain, France, Germany, Italy, and Russia.

Open to sophomores, juniors and seniors without prerequisite. This course is a prerequisite for all other courses in Political Science. Three hours a week for a year. MISS OVERACKER, MISS TRAUTWEIN.

211. POLITICAL PARTIES AND ELECTORAL PROBLEMS.

The nature of political parties; party organization; the "spoils system"; nominating methods, party finance and campaign methods; public opinion and party leadership; party reform and reconstruction.

Open to juniors who have completed course 104 or its equivalent and to seniors who have completed or are taking course 104 or its equivalent. Three hours a week for the first semester. MISS OVERACKER.

† Course 309 will usually alternate with course 302.

212. PUBLIC ADMINISTRATION.

A study of the administrative aspects of modern government with special emphasis upon municipal problems: problems of organization and structure; the appointment, promotion, and dismissal of public employees; the city manager as a new type of public official; special consideration of selected phases of administration, including police, health, finance, and city planning.

Open to juniors who have completed course 104 or its equivalent and to seniors who have completed or are taking course 104 or its equivalent. Three hours a week for the second semester.

MISS OVERACKER.

216. INTERNATIONAL ORGANIZATION.

The development of international organization and a study of the present organization and activities of the League of Nations, the Permanent Court of International Justice, and the International Labor Office.

Open to juniors who have completed course 104 and to seniors who have completed or are taking course 104. Three hours a week for the first semester.

MISS TRAUTWEIN.

312†. THE CONSTITUTION OF THE UNITED STATES.

(Not offered in 1933-34.) A study of the constitution as a governmental mechanism, with special emphasis upon its interpretation by the Supreme Court. The process of amendment, problems of citizenship, the separation of powers; the distribution of powers between the national government and the states, the Supreme Court and social legislation will be considered.

Open to juniors who have completed a course of grade II in Political Science and to seniors who have completed or are taking a course of grade II in Political Science. Three hours a week for the first semester.

MISS TRAUTWEIN.

313. INTERNATIONAL LAW.

Nature and scope of international law and its relation to municipal law; the rights and duties of states in peace and war; international law and the League of Nations; international law and the World Court.

Open to juniors and seniors who have completed course 104 or its equivalent, and a course of grade II in Political Science, History, or Economics. Three hours a week for the second semester.

MISS TRAUTWEIN.

314. CURRENT POLITICAL PROBLEMS.

Each year some one problem will be taken for intensive study through the media of documents, newspapers and periodicals.

Open to a limited number of juniors, seniors and graduate students specializing in Political Science, Economics, or History, who have completed courses 104, and 211. Three hours a week for the second semester.

MISS OVERACKER.

317†. LAW AND THE ADMINISTRATION OF JUSTICE.

(Not offered in 1933-34.) The nature, sources, and sanction of law; fundamental principles of English and American jurisprudence; the organization of the courts; the judicial process; the jury system.

† Course 312 will usually alternate with course 317.

Open to juniors who have completed a course of grade II in Political Science and to seniors who have completed or are taking a course of grade II in Political Science. Three hours a week for the first semester.

MISS OVERACKER.

350. RESEARCH OR INDIVIDUAL STUDY.

By consultation with the department, students may arrange for from one to three hours of individual work in political science.

Open to seniors who have completed or are taking a course of grade III in Political Science. Three hours a week for the first semester.

MISS OVERACKER.

HYGIENE AND PHYSICAL EDUCATION

Professors: EUGENE CLARENCE HOWE, PH.D.

RUTH ELLIOTT, PH.D. (Chairman.)

Health Officer: MARY FISHER DeKRUIF, M.D.

Assistant Professors: CHARLOTTE GENEVIEVE MACEWAN, M.S.

ELIZABETH BEALL, M.A.

Instructors: MARGARET JOHNSON,

FANNY GARRISON, B.A.

MARION ISABEL COOK, M.A.

HARRIET LUCY CLARKE, B.A.

KATHARINE FULLER WELLS, B.S.

MARY ELIZABETH POWELL, M.S.

JEAN HELEN HARRIS, B.A.

ELINOR MARIE SCHROEDER, M.A.

MARION DOROTHY JAQUES, B.A.

Recorder: ANNA ELIZABETH ANDERSON.

Secretary: WILLIAM RUSSELL MacAUSLAND, M.D.

LECTURER ON ORTHOPEDICS.

ANDREW ROY MacAUSLAND, M.D.

LECTURER ON ORTHOPEDICS.

WILFRED BLOOMBERG, M.D.

LECTURER ON MENTAL HYGIENE.

RUTH BURR, M.D.

LECTURER ON MENTAL HYGIENE.

LORETTA S. CUMMINS, M.D.

LECTURER ON HYGIENE OF THE SKIN.

HILBERT F. DAY, PH.B., M.D., F.A.C.S.

LECTURER ON PREVENTIVE SURGERY.

MARY FISHER DeKRUIF, M.D.

LECTURER ON HEALTH PROBLEMS.

EDWARD K. ELLIS, M.D.

LECTURER ON VISUAL HYGIENE.

LEIGHTON JOHNSON, M.D.

LECTURER ON HYGIENE OF NOSE AND THROAT.

MAYNARD LADD, M.D.

LECTURER ON NUTRITION.

GLENN WILLIS LAWRENCE, D.M.D.

LECTURER ON ORAL HYGIENE.

SAMUEL R. MEAKER, M.D.

LECTURER ON HYGIENE OF MENSTRUATION AND OTHER GYNECOLOGICAL PROBLEMS.

ABRAHAM MYERSON, M.D.

LECTURER ON MENTAL HYGIENE.

WILLIAM EMERSON PREBLE, B.A., M.D.

LECTURER ON INTERNAL MEDICINE.

I. UNDERGRADUATE COURSES

The Department of Hygiene and Physical Education aims to build up in each student sufficient strength and vitality to meet the demands of a normally active life; to encourage an appreciation and maintenance of fundamental health habits; to develop poise, a habit of normal unstrained carriage, a sense of rhythm, coördination and motor judgment—to enable her to handle herself confidently in any situation; to develop skill and permanent interest in wholesome recreational activities adapted to individual needs and capacities; to awaken in her a sense of self as a vital, responsible part of a group and the necessity for both harmony and individuality in effective group

work; in short, the Department aims to help each girl to adapt herself efficiently and happily to the demands made upon her by modern life.

Two hours in Hygiene and Physical Education are prescribed for the degree. One hour of this requirement is met by course 120, Personal Hygiene; the second hour is met by four periods of physical education activities, two periods per week in the freshman year and two in the sophomore year. The activities elected by each student are approved by the Department on the basis of previous experience of each student and the results of the medical and physical examinations and the motor test.

Each of the two years' work is divided into fall, winter and spring seasons. During the four sports seasons students enroll in two seasons of individual sports and two seasons of team sports, with the exception that students who can demonstrate fair skill in an individual sport may take three or more seasons of team sports. During the first year students who pass the general motor test have the elective privilege in the required winter physical education activities; others may elect gymnastics or interpretative dancing, subject to the approval of the Department. Students completing the first year of required work in physical education will have the elective privilege in the second year, subject to the approval of the Department. See description of courses 121 and 122.

120. PERSONAL HYGIENE.

The aim of this course is to present the principles of personal hygiene and public health and to develop their intelligent application to the daily living of college students and members of families and communities. Personal conferences are arranged for each student.

Required of freshmen. One hour a week for a year, counting one hour toward the degree.

DR. DEKRUIF, MISS COOK, MISS POWELL.

121†. SPORTS AND INDOOR ACTIVITIES FOR FRESHMEN.

Choice of the following:

FALL: Basket ball, golf, hockey, riding, rowing, tennis, volley ball.

WINTER: Applied dancing, folk dancing, gymnastics, interpretative dancing, tap dancing, winter riding.

SPRING: Archery, baseball, dancing (outdoor), golf, lacrosse, outdoor games, riding, rowing, tennis.

Required of freshmen, two periods a week for a year, counting one-half hour toward the degree.

THE STAFF.

122†. SPORTS AND INDOOR ACTIVITIES FOR SOPHOMORES.

Choice of the following:

FALL: Basket ball, golf, hockey, riding, rowing, tennis, volley ball.

WINTER: Applied dancing, folk dancing, gymnastics, interpretative dancing, tap dancing, winter riding.

SPRING: Archery, baseball, dancing, (outdoor), golf, lacrosse, outdoor games, riding, rowing, tennis.

Required of sophomores who have completed course 121. Two periods a week for a year, counting one-half hour toward the degree.

THE STAFF

124. INDIVIDUAL GYMNASTICS FOR FRESHMEN.

Required of freshmen whose physical condition indicates the need of individualized gymnastics. Two hours a week in the winter, with course 121 fall and spring, counting one-half hour toward the degree.

MISS WELLS, MISS GARRISON, AND ASSISTANTS.

† In addition to the regular gymnasium costume required of all students the following requirements with approximate prices should be noted: crew (\$2.65), interpretative dancing (\$5.00), tap dancing (\$3.00), individual gymnastics (\$2.65). Students are required to furnish their own individual equipment for such activities as golf, riding and tennis. Archery rental fee \$1.00. Riding \$18.00 fall or spring; \$54.00 winter. Written permission from the parents to elect riding and special permission for jumping must be filed with the Hygiene Recorder at the time of election.

125. INDIVIDUAL GYMNASTICS FOR SOPHOMORES.

Required of sophomores whose physical condition indicates the need of individualized gymnastics. Two hours a week in the winter, with course 122 fall and spring, counting one-half hour toward the degree.

MISS WELLS, MISS GARRISON, AND ASSISTANTS.

126. VOLUNTARY ACTIVITIES FOR ALL STUDENTS.

Students may elect with the permission of the Department any of the activities listed under 121 and 122.

Open to all students. Two hours a week in the fall, winter, or spring terms. Not to count toward the degree.

THE STAFF.

131. RESTRICTED ACTIVITIES FOR FRESHMEN.

Required of freshmen whose physical condition indicates the need of restricted activities. Two hours a week in the winter, with course 121 fall and spring, counting one-half hour toward the degree.

MISS HARRIS.

132. RESTRICTED ACTIVITIES FOR SOPHOMORES.

Required of sophomores whose physical condition indicates the need of restricted activities. Two hours a week in the winter, with course 122 fall and spring, counting one-half hour toward the degree.

MISS JOHNSON, MISS SCHROEDER, MISS CLARKE.

II. COURSES FOR THE CERTIFICATE AND M.S. DEGREE IN HYGIENE AND PHYSICAL EDUCATION

The Graduate Department of Hygiene and Physical Education is organized to meet the insistent demand for women of liberal education and broad professional training in this field. Its aim is to develop skilled teachers and supervisors, not only thoroughly conversant with the existing traditional subject matter, but also prepared to contribute to the current advance in educational and scientific research and its application in teaching and organization.

A. CERTIFICATE IN HYGIENE AND PHYSICAL EDUCATION.

(1) A two years' course especially designed for the training of teachers of hygiene and physical education and leading to the Certificate of the Department of Hygiene and Physical Education is offered to graduates of approved colleges. In order to be admitted to this course, candidates must be without organic disease or serious functional disorder, with a keen sense of rhythm and the ability to use the voice with ease and power. Candidates should present for admission one year of Chemistry, one year of Physics, (Physics and Chemistry completed in secondary school may be accepted), one-half year of Psychology, one-half year of Education, whenever possible the equivalent of Mammalian Anatomy (Zoölogy 301 and 313), and Physiology (Zoölogy 302)†, and swimming proficiency sufficient to pass Red Cross or Intercamp Life Saving Tests.

(2) A five years' course is offered leading to the B.A. degree and the Certificate of the Department of Hygiene and Physical Education. This course is open only to candidates for the B.A. degree in residence at Wellesley College. In general, students in this course receive the B.A. degree at the end of the fourth year and complete in the fifth year the work required for the Certificate. The following courses count toward the Bachelor's degree: Zoölogy 301 and 313, each one hour; Zoölogy 302, Hygiene 303, each three hours.‡

B. MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION.

Graduate students who have qualified for advanced study and research, who have completed or are completing the requirements for the Certificate, and who have given evidence of a reading knowledge of French or German, may register for and complete in one or two years the twelve year-hours required for the M.S. degree in Hygiene and Physical Education.||

† See undergraduate courses in Chemistry, Physics, Psychology, Education, Zoölogy.

‡ See Bulletin of Graduate Department of Hygiene and Physical Education.

|| See Wellesley College Graduate Circular.

REQUIRED COURSES FOR FIRST-YEAR GRADUATE STUDENTS

101. GYMNASTICS.

Marching; gymnastics (fundamental, non-definite, rebounding types of exercises progressing to and through the more definite type); apparatus activities and tumbling.

Required of first-year students. Three hours a week in the fall and winter.

MISS BEALL, MISS CLARKE.

102. TEAM GAMES AND SPORTS.

Practice for skill, study of rules and of coaching methods with emphasis on individual technique; fall season—baseball, basket ball, and hockey; spring season—archery, tennis, lacrosse and track. Notebooks are required.

Required of first-year students. Six hours a week in the fall, eight hours in the spring.

MISS BEALL, MR. HOWE, MISS HARRIS, MISS SCHROEDER.

104. DANCING.

Elementary rhythmic work and dramatic play for small children; folk and national dances; tap dancing.

Required of first-year students. Three hours a week for a year.

MISS MACEWAN, MISS BEALL.

105. INTERPRETATIVE DANCING.

Elementary analysis of the mechanics of movement; fundamental technique and its application in expression; study of musical structure and content; development of simple rhythmic patterns; first principles of design; dynamics; introductory problems in improvisation and composition.

Required of first-year students. Two hours a week for a year. MISS MACEWAN.

110. PHYSICAL EXAMINATIONS.

Purpose and technique of the physical examination, methods of recording, and the interpretation of findings.

Required of first-year students. One hour a week for the second semester.

MISS WELLS.

203. TECHNIQUE OF TEACHING GYMNASTICS.

Lectures and quizzes on gymnastic terminology with a survey of gymnastic material, followed by preliminary practice teaching. Thorough drill on all technical devices.

Required of first-year students. Two hours a week for a year.

MISS BEALL, MISS CLARKE.

208. PLAY ACTIVITIES.

Psychology of play; selection and adaptation of activities for different age periods. Playground management and supervision. Study, demonstration and practice in methods of teaching story plays, games of low and high organization, stunts, achievement tests, and social games.

Required of first-year students. Two hours a week for a year.

MISS BEALL, MISS COOK.

212. INTRODUCTION TO THE STUDY OF PHYSICAL EDUCATION.

A brief historical survey of physical education in Europe and America is used to show the relation between aims and current practice in physical education and the social needs and political ideals of different periods. Present-day objectives are discussed and the distinctive values of type activities are suggested.

Required of first-year students. One hour a week for the first semester.

MISS ELLIOTT.

301. MAMMALIAN ANATOMY.

(Zoölogy 301—See Department of Zoölogy and Physiology.)

313. MAMMALIAN ANATOMY.

(Zoölogy 313—See Department of Zoölogy and Physiology.)

302. GENERAL PHYSIOLOGY.

(Zoölogy 302—See Department of Zoölogy and Physiology.)

303. KINESIOLOGY.

Lectures and recitations dealing with the anatomical mechanism of movements; the rôles of joint motion, muscular action, gravity, leverage, inertia, and internal resistance in the production and modification of movements and their effects. This course counts three hours toward the Bachelor's degree, or (with supplementary assignments) toward the Master's degree.

Required of first-year students. Courses 301 and 313 or their equivalents must be taken concurrently if not presented as prerequisites. Three hours a week for a year.

MISS POWELL.

REQUIRED COURSES FOR SECOND-YEAR GRADUATE STUDENTS

201. GYMNASTICS.

A continuation of the more advanced type of gymnastics offered in 101.

Required of second-year students. Two hours a week in the fall and two hours in the winter.

MISS CLARKE, MISS WELLS.

202. THEORY AND PRACTICE OF SPORTS AND TEAM GAMES.

Advanced technique and tactics of team play in the activities offered in course 102 with the addition of soccer. Methods of coaching and officiating.

Required of second-year students. Seven hours a week in the fall and spring, with an additional hour of lecture and discussion once a week for the first semester.

MISS BEALL, MR. HOWE, MISS HARRIS, MISS SCHROEDER.

205. ADVANCED INTERPRETATIVE DANCING.

A continuation of course 105 with a study of adaptation for teaching purposes.

Required of second-year students. Two hours a week for the second semester.

MISS MACEWAN.

206. TEACHING OF INTERPRETATIVE DANCING.

Lectures and practice. Sources, classification, selection and adaptation of material; principles of progression; analysis of methods of presentation and

teaching. The course includes either participation in some phase of dance drama production, or the writing of an original dance drama or festival.

Required of second-year students. Three hours a week for the first semester.

MISS MACEWAN.

209. RECONSTRUCTIVE HYGIENE.

Conditions which affect general health; application of hygiene, corrective exercise, and massage in treatment; study of first aid methods. Approximately 30 lectures in this course are given by orthopædic and medical specialists. Clinical demonstration of orthopædic material is given in the Carney Hospital, Boston, and other clinics.

Required of second-year students. Three hours a week for a year.

MISS WELLS, DR. MACAUSLAND, AND OTHER LECTURERS.

214. SUPERVISED TEACHING.

Students assist in the college undergraduate required activities and conduct, under supervision, physical education programs in the public schools of Wellesley.

Required of second-year students. Ten hours a week for a year, exclusive of individual conferences.

MISS COOK AND THE STAFF.

304. PRINCIPLES AND PHILOSOPHY OF PHYSICAL EDUCATION.

Study and discussion of the purposes, scope, and ideals of physical education, including a detailed study of the main groups of activities usually included in a program of physical education with special reference to the selection and adaptation of the same to varying situations in the field.

Required of second-year students. Two hours a week for a year. MISS ELLIOTT.

306. ORGANIZATION AND MANAGEMENT.

The study of procedures upon which the teaching situation depends; i.e., analysis and selection of activities, examination and grouping of pupils, testing the results of teaching, evaluation of the teacher or leader, provision of equipment, department organization. Illustrative problems are selected from those of elementary or secondary school and the college.

Required of second-year students. Two hours a week for the second semester.

MISS ELLIOTT.

321. APPLIED PHYSIOLOGY.

The application of human physiology to the problems of hygiene and physical education. Functional, ability, and achievement tests, nutritional standards. The elements of statistical method and precision of measurement. Advanced problems in nutrition and growth, fatigue, coöordination and training. This course counts three hours toward the Master's degree.

Required of second-year students. Zoölogy 302 or its equivalent is prerequisite. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for a year.

MR. HOWE, MISS POWELL.

ELECTIVE COURSES

107. SWIMMING.

Instruction leading to the Red Cross certificate for Life Saving or for Life Saving Examiner.

Open to first and second-year students, and with the permission of the department to five-year students. Ten lessons during the winter.

216. MUSIC IN RELATION TO DANCING.

The purpose of this course is to furnish the basis for an intelligent appreciation of musical composition from the standpoint of the dance. It includes discussion and application of the principles of interpretation with emphasis on ear training, fully illustrated with music. No special technical knowledge of music is required.

Open to first-year students, and with the permission of the department to five-year students. One hour a week for the second semester.

MISS JOHNSON.

317. PROBLEMS OF ORGANIZATION AND ADMINISTRATION.

Organization and management studied by field trips, discussion, and library investigation. Records, reports and budgets, construction and upkeep of buildings and sports fields.

Open to second-year students registered in course 306. One hour a week for the second semester.

MISS ELLIOTT.

322. HEALTH PROBLEMS OF SCHOOL AND COMMUNITY.

The problems of growth, of health instruction, and environmental hygiene in the solution of which the teacher in physical education should be prepared to assist, advise, or supervise. Three hours a week are devoted to lectures and three to practical work, in which the students take active part in a school health program of measurement and instruction. This course counts three hours toward the Master's degree.

Open to first and second-year students. Three hours a week for a year.

MR. HOWE, MISS COOK.

323. SEMINAR IN HYGIENE AND PHYSICAL EDUCATION.

(Not given in 1933-34.) Reading, investigation and reports on current problems in hygiene and physical education; conferences, presentation of one or more papers for discussion.

Open to second-year students. One or more semester hours.

MISS ELLIOTT, MR. HOWE.

**DIRECTIONS FOR UNDERGRADUATES WHO ARE CANDIDATES FOR THE
B.A. DEGREE AND FOR THE CERTIFICATE OF THE DEPARTMENT OF
HYGIENE AND PHYSICAL EDUCATION**

Five years are required to complete the work for both degree and certificate. The work for the degree may be completed in four years.

A student may enter this five-year course at the beginning of her freshman, sophomore, or junior year. The College Recorder will furnish the student with a form to be presented to the Chairman of the Department, since permission to register for the five-year course must be obtained from the Chairman by each applicant. By the end of the sophomore year a student should have completed Hygiene and Physical Education 120, 121, 122, Biblical History 101.2 or 104,

Chemistry 101, Psychology 101, Physics 101, the prescribed courses in English Composition, and Speech, or should offer satisfactory equivalents. A full major in Zoölogy is an advantage. The work for the last three years is as follows:

JUNIOR YEAR: Courses 101, 102, 105, 110, 212, and Zoölogy 301, 313. Zoölogy 302 may be taken in the junior or in the senior year. Zoölogy 301, 302, 313 count toward the B.A. degree and a major in Zoölogy.

SENIOR YEAR: Courses 104, 126, 203, 208, 303, and Zoölogy 302 if not completed in the junior year. Hygiene 303 and Zoölogy 302 count toward the B.A. degree, and Zoölogy 302 toward a major in Zoölogy.

Education 201 is required and should ordinarily be taken in the junior year. Courses in French, German, Economics, Psychology and Bacteriology are advised.

FIFTH YEAR: Courses 201, 202, 205, 206, 209, 214, 304, 306, and 321. Course 322 may be elected and counts three hours toward the M.S. degree. Course 321 (required) may count three hours toward the M.S. degree.

Students are referred to the Bulletin of the Graduate Department of Hygiene and Physical Education.

ITALIAN

*Professor: GABRIELLA BOSANO, DOTTORE IN FILOLOGIA MODERNA.
(Chairman.)*

*Instructors: ANGELINE LA PIANA, DOTTORE IN LETTERE.
MARIA PRICLMEIR BIZZONI, M.A.*

The language of the class room is Italian except for occasional necessary explanations of grammar and idiom.

101.‡ ELEMENTARY COURSE.

Grammar, with written and oral exercises; reading and sight translation; conversation. In the second semester a general view of Italian civilization is given through reading and conversation.

Open to students who do not present Italian for admission. Three hours a week for a year. MISS BOSANO, MISS LA PIANA, MISS BIZZONI.

102. PRACTICAL PHONETICS.

Exercises in pronunciation based on reading aloud short passages of prose and poetry. Emphasis on rhythm and melody of the spoken language and on practical application of scientific phonetics.

Open to students who are taking course 101 and required of students majoring in Italian. One hour a week for a year. MISS BIZZONI.

201. HISTORY OF ITALIAN LITERATURE IN THE TWENTIETH CENTURY.

Emphasis on drama and short stories.

Open to students who have completed course 101 or equivalent. Three hours a week for a year. MISS LA PIANA.

‡ Candidates for the degree under the old curriculum may not count Italian 101 toward the B.A. degree, if taken after the junior year.

202. HISTORY OF ITALIAN LITERATURE IN THE NINETEENTH CENTURY.

Emphasis on Italian romanticism and the classical reaction, through a detailed study of the works of A. Manzoni and G. Carducci.

Open to students who have completed course 101 or equivalent. Three hours a week for a year. MISS BIZZONI.

205. COMPOSITION.

A study of the most difficult parts of Italian grammar and syntax. Free composition with special attention to letter writing. The subject matter will deal chiefly with contemporary Italy.

Open to students who have completed course 101 and are taking course 201 or 202. Two hours a week for a semester. Offered in both semesters. MISS LA PIANA.

206. CONVERSATION.

Dealing especially with the various aspects of Italian contemporary life; to give to the student a larger vocabulary and correct pronunciation, ease and freedom of expression and clear phrasing.

Open to students who have completed course 101 and are taking course 201 or 202. Two hours a week for a semester. Offered in both semesters. MISS LA PIANA.

301.† DANTE AND HIS TIME.

The study of the outstanding characteristics of the Middle Ages and of its writers. The reading of Dante's *Divina Commedia* and *Vita Nuova* in the original and in full.

Open on consultation with the instructor to juniors and seniors who have completed or are taking course 201 or 202. Three hours a week for a year.

MISS BOSANO.

NOTE:—The Dante Society offers an annual prize of two hundred dollars for the best essay on a subject drawn from the life or works of Dante. The competition is open to students or graduates of not more than three years' standing from colleges or universities in the United States. For subjects and conditions consult page 406 of the Harvard University Catalogue, 1932–33.

305.† COMPOSITION.

A comparative study of Italian grammar with reference to Latin and to the Romance Languages. A careful analysis of passages from masterpieces. Translation from English into Italian. Free composition with special attention to essays and literary criticism.

Open to students who have completed courses 101, 201 or 202, and are taking course 301 or 307. Two hours a week for the second semester. MISS BIZZONI.

306.† CONVERSATION.

Italian civilization as seen in the development of art and philosophy; to give to students a further training in diction and in expressing themselves freely on a given subject.

† It will be the privilege of students in courses 301, 305, 306, and 307 to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Plimpton Collection.

COURSES OF INSTRUCTION

Open to students who have completed courses 101, 201 or 202, and are taking course 301 or 307. Two hours a week for the first semester. MISS BIZZONI.

307.† LITERATURE OF THE ITALIAN RENAISSANCE.

A survey of the Italian civilization of the Renaissance as expressed in literature; a detailed study of the following subjects: History and epics in the fifteenth and sixteenth centuries.

Open on consultation with the instructor to juniors and seniors who have completed or are taking course 301. Three hours a week for a year. MISS BOSANO.

LATIN

Professor: CAROLINE REBECCA FLETCHER, M.A.
Associate Professors: ANNA BERTHA MILLER, PH.D. (Chairman.)
 HELEN HULL LAW, PH.D.
Assistant Professor: DOROTHY MAE ROBATHAN, PH.D.

101. INTRODUCTION TO LATIN LITERATURE.

A brief survey of the literature based upon representative authors from the most important fields of verse and prose: one comedy of Terence or Plautus; the epic form in Ennius, Lucretius, and Ovid; lyrics of Catullus and Horace; epigrams of Martial; Cicero's essays, and letters of Cicero and Pliny; Livy's history of early Rome. The course serves to correlate the student's earlier reading in Latin, and to prepare for more intensive study of special authors. Emphasis is placed upon the continuity of Latin thought or literary form as an influence on modern literature and civilization.

Open to students who present four units in Latin for admission, or have completed course 103. Three hours a week for a year.

MISS FLETCHER, MISS MILLER, MISS ROBATHAN.

103. VERGIL (*Æneid I-VI*) or CICERO (*Orations, Letters*).

The choice of author will depend upon the preparation of the students.

Open to students who present only three units in Latin for admission. Students who have satisfactorily completed four units, even though only three have been offered for admission, should elect course 101. Three hours a week for a year.

MISS ROBATHAN.

201. HORACE.

A study of Horace's lyric verse in the *Odes* and *Epodes*, supplemented by selections from the *Epistles* as a basis for appreciation of the poet's art.

Open to students who have completed course 101, and by permission of the department, to qualified juniors and seniors without prerequisite. Three hours a week for the first semester.

MISS MILLER.

202. VERGIL.

Selections from the *Eclogues*, *Georgics*, and *Æneid*. Study of the poet's early work in pastoral romance, and his later development through didactic epic, the *Georgics*, to the heroic epic of the *Æneid*.

† See footnote on preceding page.

Open to students who have completed course 101, and by permission of the department, to qualified juniors and seniors without prerequisite. Three hours a week for the first semester.

MISS FLETCHER.

204. TACITUS AND PLINY.

The *Agricola* of Tacitus, with selections from the *Histories*; Pliny's *Letters*. Reports on special topics concerned with the literary style and social background of these authors.

Open to students who have completed a semester course of grade II. Three hours a week for the second semester.

MISS MILLER.

205. CICERO'S PHILOSOPHICAL WORKS.

Selections from the *Tusculan Disputations*, the *De Officiis* and other works.

Open to students who have completed a semester course of grade II. Three hours a week for the second semester.

MISS FLETCHER.

206. LATIN WRITING.

Practice in turning connected English passages into Latin. Emphasis is placed upon accuracy of expression and correct idiom.

Open to students who have completed a course of grade I. One hour a week for a year.

MISS ROBATHAN.

211. MEDIÆVAL LATIN.

Readings from Latin writers in the fields of literature, history and philosophy of the Middle Ages. Selections include Cassiodorus, Gregory the Great, Bede, Geoffrey of Monmouth, John the Scot, Erasmus, Abelard, the chroniclers of the Crusades, the romancers of the *Gesta Romanorum*, religious drama, songs of the Goliards, and church hymns. Only so much attention will be given to linguistic study as the reading requires.

Open to students who have completed one full course in the Latin Department, and to juniors and seniors who present four units in Latin for admission and who are giving special attention to Mediæval Art, History, or Literature. Three hours a week for the second semester.

MISS MILLER.

301. COMEDY. PLAUTUS AND TERENCE.

Careful study of two plays followed by the rapid reading of others. The course includes a study of the sources of Latin comedy, its linguistic and literary features, and its influence upon later literature.

Open to students who have completed two full courses. Three hours a week for the first semester.

MISS ROBATHAN.

302. SATIRE. HORACE AND JUVENAL.

Some attention is paid to the origin and development of satire as a literary form. The chief emphasis is placed upon the satires of Horace and Juvenal, but the work of other Roman satirists is studied by special topics and reports. Sight reading in Martial.

Open to students who have completed two full courses. Three hours a week for the second semester.

MISS ROBATHAN.

303. LATIN EPIGRAPHY.

(Not given in 1933-34.) Selected inscriptions will be studied both for their form and for their content as sources for the study of Roman public and private life.

Open to students who have completed three full courses, and with the permission of the department, to qualified students who have completed two full courses. Three hours a week for the first semester.

MISS ROBATHAN.

304. TOPOGRAPHY OF ROME.

A study is made of the early history of the city, its development, the construction and furnishings of typical public and private buildings in Rome and in provincial towns. Such study of the material surroundings is connected with the literary and social development of the Roman people, and is introductory to further work in classical archaeology.

Open to students who have completed three full courses, and with the permission of the department, to qualified students who have completed two full courses. Three hours a week for the second semester.

MISS ROBATHAN.

305. RELIGIOUS AND POLITICAL INSTITUTIONS OF THE ROMAN REPUBLIC.

(Not offered in 1933-34.) Study of the sources will be based on the first ten books of Livy. Lectures and collateral reading.

Open to students who have completed two full courses. Three hours a week for the first semester.

MISS FLETCHER.

306. STUDIES IN ROMAN RELIGION.

(Not offered in 1933-34). Study of the private cult will precede that of the institutions of the State religion. The chief emphasis will be upon the Roman republican period, but the influence of the Oriental cults of imperial times will be presented in special topics.

Open to students who have completed two full courses. Three hours a week for the second semester.

MISS FLETCHER.

307. LATIN LITERATURE OF THE EARLY CHRISTIAN PERIOD.

Readings from the Early Christian Apologists and Fathers illustrating the contact of Christian ideals with Pagan thought and civilization. Latin Hymns. This course may count as an elective in the Department of Biblical History.

Open to students who have completed three full courses, and with the permission of the department, to qualified students who have completed two full courses. Three hours a week for the second semester.

MISS MILLER.

308. LATIN WRITING.

(Not given in 1933-34.) Advanced course.

Open at the discretion of the instructor to students who have completed course 206. One hour a week for a year.

MISS FLETCHER.

309. PROSE LITERATURE OF THE ROMAN EMPIRE.

The aim of this course is to secure an acquaintance with many representative authors of the Roman Empire, and to show the interest and value of the "Silver

Latinity" in writers of the later imperial period. The readings will vary from year to year, with emphasis on history, philosophy, or fiction as the major study. Individual assignments of reading and reports are an important feature of the course.

Open to students who have completed three full courses, and with the permission of the department, to qualified students who have completed two full courses. Three hours a week for the first semester.

MISS MILLER.

310. SURVEY OF LATIN POETRY.

Poetry of the Republic. Some study is given to the beginnings of Latin poetry and the earlier poets, but the main emphasis is placed upon the poets of the Ciceronian Age, Catullus and Lucretius.

Open to students who have completed three full courses. Three hours a week for the first semester.

MISS FLETCHER.

312. SURVEY OF LATIN POETRY.

Poetry of the Empire. The aim of this course is to secure an acquaintance with representative poets of the period, and to show the interest and the value of the later Latin poetry. Rapid reading without translation is one of the features of this course.

Open to students who have completed three full courses. Three hours a week for the second semester.

MISS FLETCHER.

321. HISTORY OF LATIN LITERATURE.

The design of this course is to enable a graduate student to study the authors and periods and forms of literature which were not included in her undergraduate work, and thus to complete the work done in individual courses by a comprehensive view of Latin literature as a whole and its place in world literature. The course demands much independent work and is intended to meet individual needs.

Open to graduate students only. One to three hours a week for a year.

THE TEACHING STAFF.

MATHEMATICS

Professors: CLARA ELIZA SMITH,² PH.D.

MABEL MINERVA YOUNG, PH.D. (Chairman.)

Associate Professor: LENNIE PHOEBE COPELAND, PH.D.

Assistant Professor: MARION ELIZABETH STARK, PH.D.

Instructor: HELEN GERTRUDE RUSSELL, PH.D.

Students who take Mathematics to meet the requirements for the B.A. degree under the old curriculum should choose course 106 or course 107. Course 106 is for students who have not had a course in Trigonometry, course 107 is for those who have spent a half-year in studying this subject.

106. TRIGONOMETRY, HIGHER ALGEBRA, ANALYTIC GEOMETRY.

Trigonometric equations and transformations, including the use of inverse functions and radian measure; solution of oblique triangles; differentiation of algebraic functions; theory of equations; determinants; the elements of Analytic Geometry, including the study of the conic sections.

²Absent on Sabbatical leave.

Open to students who present three units in Mathematics for admission. Three hours a week for a year. MISS COPELAND, MISS STARK, MISS RUSSELL.

107. HIGHER ALGEBRA AND ANALYTIC GEOMETRY.

Determinants; derivatives of algebraic functions; theory of equations; the elements of Analytic Geometry, including the study of the conic sections and of other curves.

Open to students who present four units in Mathematics for admission, or have had a course in Trigonometry equivalent to that outlined by the College Entrance Examination Board. Three hours a week for a year. MISS RUSSELL.

202. DIFFERENTIAL AND INTEGRAL CALCULUS.

The applications include a course in curve tracing.

Open to students who have completed a course in Analytic Geometry. Three hours a week for a year. MISS YOUNG, MISS COPELAND, MISS RUSSELL.

203. HISTORY OF ELEMENTARY MATHEMATICS.

The evolution of the fundamental concepts of mathematics. Great mathematicians and their chief contributions to elementary mathematics. A brief survey of modern developments in mathematics and its literature. A standard text is used, supplemented by lectures and short reports, chiefly based upon rare old books in the mathematical library.

Open to juniors and seniors who have completed or are taking course 202. Three hours a week for the second semester. MISS COPELAND.

204. INTRODUCTION TO THE THEORY OF STATISTICS.

Statistical methods, with special emphasis on the use of elementary mathematics in the development of theory and in practice.

Open to students who have completed a three-hour course of grade I in Mathematics. One period of lecture with the equivalent of one laboratory period a week counting one hour a week for a year. This course counts toward a degree, but not toward a major in the department. MISS YOUNG.

206. DESCRIPTIVE GEOMETRY I.

The theory and practice of the representation of geometric figures. The use of two or more planes of projection in representing lines, surfaces, and solids. Intersections and shadows.

Open to students who have completed or are taking course 202, and by special permission to a limited number who have completed a course in Analytic Geometry. All must have a knowledge of the elements of Solid Geometry. One period of lecture with one period of laboratory a week, counting one hour a week for a year. MISS STARK.

208. DESCRIPTIVE GEOMETRY II.

Special methods for the construction of curves and solids. Intersections of curved surfaces. Different types of perspective.

Open to students who have completed course 206. One period of lecture with the equivalent of one laboratory period a week, counting one hour a week for a year. MISS STARK.

302. HIGHER ANALYSIS.

The number system of Algebra; continuity and other properties of functions; convergency of series; representation of functions by power series; theory of integration. Infinite products, infinite integrals, beta and gamma functions, Fourier series, and other allied subjects.

Open to students who have completed course 202. Three hours a week for a year.
MISS STARK.

303.* DIFFERENTIAL EQUATIONS.

An introductory course in ordinary and partial differential equations.

Open to students who have completed course 202. Three hours a week for the first semester.
MISS COPELAND.

304. INTRODUCTION TO MODERN ALGEBRAIC THEORY.

Determinants, matrices, systems of linear equations, symmetric functions, eliminants, resultants, discriminants, invariants and covariants, quadratic forms.

Open to students who have completed course 202. Three hours a week for the second semester.
MISS RUSSELL.

305. INTRODUCTION TO DIFFERENTIAL GEOMETRY.

(Not given in 1933-34.) Calculus applied to geometry of two and three dimensions, including a study of twisted curves.

Open to students who have completed course 202. Three hours a week for the first semester.
MISS RUSSELL.

306. MODERN SYNTHETIC GEOMETRY.

Metrical and projective properties of plane and sheaf forms of the first and second orders; the anharmonic ratio; harmonic forms; the method of inversion; involution; the law of duality; theory of poles and polars, reciprocation; space forms and surfaces of the second order. Given by lectures and references, with constant practice in the solution of geometrical problems.

Open to students who have completed course 202. Three hours a week for a year.
MISS YOUNG.

307. ADVANCED GEOMETRY.

(Not given in 1933-34.) An introduction to the study of higher plane curves. Both algebraic and synthetic methods will be used. The theory of the conic will be extended, and curves of the third order systematically studied. Lectures, reading and discussion.

Open to students who have completed course 306, and have completed or are taking three additional hours of grade III. Three hours a week for a year.
MISS YOUNG.

308. FUNCTIONS OF A COMPLEX VARIABLE. Elementary treatment of analytic functions. Infinite series and products, with applications to elliptic functions.

Open to students who have completed course 202. Three hours a week for a year.
MISS COPELAND.

* Physics 305, if preceded by Mathematics 303, may be counted toward a major in Mathematics.

MUSIC

Professor: HOWARD HINNERS, B.A. (Chairman.)
Assistant Professor: HELEN JOY SLEEPER, M.A., Mus.B.
Instructor: EDWARD BARRY GREENE, B.A.
 DIRECTOR OF CHOIR.
Assistant: BARBARA GOLDSMITH TRASK, B.A.

The Wellesley College Choir of a hundred members, founded in 1900, furnishes the music for the Sunday services in the Memorial Chapel and gives one or more secular concerts during the year. Any student with a good natural voice is eligible for membership; trials to fill vacancies are held at the opening of each college year.

The College Symphony Orchestra, consisting of about thirty student and faculty members, was founded in 1906. It offers advantages of competent instruction in ensemble playing under a professional conductor. It gives at least one concert each year. Any members of the College who have sufficient technique are admitted to membership.

A limited number of tickets for reserved seats at the concerts of the Boston Symphony Orchestra in Symphony Hall, Boston, are free to students in the department who are able to use them profitably.

I. MUSICAL THEORY

The courses in theory and history are open to all students without regard to previous musical knowledge, and count toward the B.A. degree. The history and theory courses are subject to no separate tuition fee. Courses 206, 305, 306, 307, 308, 309, 313 and 314 are designed especially for those students who desire to gain an appreciative knowledge of musical literature.

101.* ELEMENTS OF MUSIC.

Rudiments, major, minor and ecclesiastical modes, pentatonic and other exceptional scales, modality and tonality, intervals, chord construction, analysis of the mechanism of modulation. Aural drill in the identification of the roots of triads and dominant seventh chords and their inversions. Intensive work in ear-training and sight-singing, designed to develop a keen ear for intervals, rhythmic patterns and tonal relations.

Open to students who do not offer harmony for admission. Required of all freshmen who elect practical music. Not to be counted toward a major. Three hours a week for a year.

MISS SLEEPER, MR. GREENE.

103. INTERPRETATION.

(Not offered in 1933-34.) This course is a training in the principles of interpretation, developed through the performance in class of music studied with the private teacher and by listening to and analyzing compositions performed by others. In the first semester, emphasis is laid upon cadences, figuration, the broader rhythmic distinctions, the simple forms, and the school of the composer. In the second semester, the subject matter includes varieties of melody, the larger forms, harmony and rhythm in their æsthetic bearings, and comparative criticism of different styles of composition.

Open to sophomores, juniors and seniors who are at the same time taking lessons in practical music in the department, and who have acquired a satisfactory degree of skill. Students may elect practical music without electing the course in interpretation, but no one may elect the course in interpretation without at the same time electing practical music. A list of students eligible to this course is posted when the elective circular is issued, each spring. One hour a week for a year.

MR. GREENE.

* Course 205, if preceded by course 101, may be counted toward a major in Musical Theory.

201. HARMONY.

Major and minor triads and their inversions, elementary modulation, suspensions and other non-harmonic tones. Harmonization—both written and at the keyboard—of simple melodies and basses, figured and unfigured. Dictation and analysis.

Open only to students who have completed course 101, or who can satisfy the instructor, by a special test in ear-training, of their ability to take the course. All candidates for the course must have an elementary knowledge of piano or organ playing sufficient to enable them to play simple hymn-tunes at sight. Three hours a week for a year.

MR. HINNERS.

203. ELEMENTARY COUNTERPOINT.

Counterpoint in two and three voices.

Open to students who have completed course 101, or who can satisfy the instructor, by a special test in ear-training, of their ability to take the course. Three hours a week for a year.

MR. HINNERS.

205.* SOUND (Physics 205—See Department of Physics).

(Not offered in 1933-34.)

206. HISTORY OF MUSIC.

Lectures and discussions on the history of music, from its earliest beginnings to the present. The course is non-technical and no previous knowledge of music is necessary. About six discussion outlines, based on assigned topics, are required each semester.

Open to juniors and seniors, and to sophomores who have had one course in the department. Three hours a week for a year.

MR. GREENE.

303. ADVANCED COUNTERPOINT AND COMPOSITION.

(Not offered in 1933-34.) Counterpoint in four voices; double and imitative counterpoint. Composition in the simpler contrapuntal forms: simple canon, motet, invention, choral prelude and variations.

Open to graduate students and approved undergraduates who have completed course 301. Three hours a week for a year.

MR. HINNERS.

305. CHORAL MUSIC.

Mediæval and Renaissance music as represented by Gregorian chant, troubadour songs, and the rise of polyphony. Special emphasis is given to the culminating schools of the sixteenth century, with detailed study of selected works by Palestrina, Lassus, Victoria, and the English Madrigalists.

Open to students who have completed course 201 or the sequence 101, 206. Three hours a week for the first semester.

MISS SLEEPER.

306. BEETHOVEN AND WAGNER.

(Not offered in 1933-34.) An intensive course devoted to the analyses of selected pianoforte sonatas, chamber music and the symphonies of Beethoven, his opera "Fidelio," and the operas of Wagner. The aim of the course will be to

* Course 205, if preceded by course 101, may be counted toward a major in Musical Theory.

give an intimate knowledge of the two composers' works and to estimate their place in musical history.

Open to students who have completed course 201, or the sequence 101, 206. Three hours a week for a year.

MR. GREENE.

307. SCHUBERT AND SCHUMANN.

(Not offered in 1933-34.) An illustrated lecture course, intensive in character, devoted to the study of the principal works of the composers named. The romantic movement in music, the development of the German Song, the poetic and lyric piano piece and the birth of musical criticism are among the principal topics treated. The work of the class will be based mainly upon study of scores and critical papers.

Open to students who have completed course 201, or the sequence 101, 206. Three hours a week for the first semester.

MISS SLEEPER.

308. MENDELSSOHN AND CHOPIN.

(Not offered in 1933-34.) An illustrated lecture course, intensive in character, devoted to the study of the principal works of the composers named. The beginnings of modernism, the culmination of sacred music in the oratorio, the age of the virtuoso, the development of instruments, and individual and emotional treatment in music are the principal topics studied. The work of the class will be based mainly upon study of scores and critical papers.

Open to students who have completed course 201, or the sequence 101, 206. Three hours a week for the second semester.

MISS SLEEPER.

309. BACH.

An intensive study of selected masterpieces from among the choral, organ, clavier and orchestral works, with special reference to the forms perfected by Bach, and his place in the history of music.

Open to students who have completed course 305. Three hours a week for the second semester.

MISS SLEEPER.

310. ADVANCED HARMONY.

Dominant and secondary seventh and ninth chords, altered chords and modulation to remote keys. Harmonization of more extended melodies and basses, involving some of the elementary principles of musical composition. Advanced dictation, keyboard work and analysis.

Open to juniors and seniors who have completed course 201. Three hours a week for a year.

MR. HINNERS.

313. SYMPHONIC MUSIC.

Origin and development through the seventeenth century. The perfected forms of the classic period. Chief tendencies of the nineteenth century, leading to a consideration of modern works. The emphasis of the first semester will be on the symphonies of Beethoven, of the second semester on those of Brahms.

Open to graduate students and to students who have completed course 305 or 306, and by special permission to seniors who are taking courses 305 and 309. Three hours a week for a year.

MISS SLEEPER.

314. DEVELOPMENT OF DRAMATIC MUSIC.

(Not offered in 1933-34.) The progress of sacred and secular forms used in dramatic music from the opening of the seventeenth century to the present. Intensive study will be made of a few representative works.

Open to students who have completed course 201, or the sequence 101, 206. Three hours a week for the second semester.

MISS SLEEPER.

315. INSTRUMENTATION.

The technique, timbres and ensemble of the instruments of the modern orchestra. Drill in transposition by clef and practice in simple score-reading. Elementary orchestration. The mechanism and scope of the various instruments will be illustrated by members of the Boston Symphony Orchestra.

Open to graduates and to approved seniors and juniors who have completed courses 201 and 203 or 310. Three hours a week for a year.

MR. HINNERS.

II. PRACTICAL MUSIC (INSTRUMENTAL AND VOCAL LESSONS)

Instructors in Practical Music: BLANCHE FRANCES BROCKLEBANK (Piano)
 JEAN EVELYN WILDER, B.A. (Piano)
 JACQUES HOFFMANN (Violin)
 GLADYS AVERY (Voice)
 VIVIAN HUSE PLACE (Harp)
 YVES CHARDON (Violoncello)
 CLARENCE EVERETT WATTERS, F.A.G.O. (Organ)
 MALCOLM HAUGHTON HOLMES, B.S. (Conductor of
 Orchestra)

Attention is called to the fact that a student need not necessarily spend five years in college in order to carry on practical music at the same time with the academic course. See (a) following.

Freshmen may not elect instrumental or vocal music without course 101 or by special permission course 201. There is an extra charge for instrumental or vocal music. (See page 143.)

Attention is called to the fact that students who elect Musical Theory 103 are thereby obtaining one hour's credit toward the B.A. degree in connection with work done in practical music. Practical music is offered to all students, whether candidates for degrees or not, as stated below:—

(a) Candidates for the B.A. degree who propose to spend but four years in college may take practical music, provided that they obtain each year the permission of the Dean as well as of the Chairman of the Department. They must also take a full course in Musical Theory, unless they have completed two three-hour courses in the subject.

(b) Candidates for the B.A. degree who are willing to devote five years to the college course will be permitted to take practical music each year of the course, governed by the restriction laid down in (a).

(c) Candidates for the B.A. degree who wish also the *Certificate of the Department of Music* should plan to devote five years to the college course. Such students are required to take practical music, two lessons a week throughout the five years. They must complete, satisfactorily to the department, a course in the literature of the instrument chosen or of the voice; they must apply for the certificate at least three years in advance. The study of Musical Theory is required throughout the course.

(d) Students not candidates for the B.A. degree who desire to specialize in music must meet the requirements prescribed for admission to the freshman class, and must in addition pass an entrance examination in Harmony. Special students must take both Musical Theory and vocal or instrumental lessons, two a week, with not less than twelve hours of weekly practice. They must also take from six to nine hours per week of academic work, including Musical Theory, as may be decided in consultation with the Dean.

(e) Students not candidates for the B.A. degree who wish the *Certificate of the Department of Music* must comply with the conditions laid down in (d); moreover, the academic work taken must include modern languages. Such students must apply for the certificate on entering the department, and must have already acquired the fundamental technique of the instrument chosen or of the voice. The time occupied in study for the certificate depends upon the talent, upon the proficiency of the student at entrance, and upon her subsequent diligence; but in general four years at least are necessary. The various courses are so arranged that the pupil on completion will have an acquaintance with the best musical literature.

(f) Graduates of Wellesley College or of similar institutions may make special arrangement for instrumental or vocal lessons.

(g) Permission to practice in Music Hall cannot in general be given to students not regularly registered in the department.

(h) Students whose progress is not satisfactory may be required to discontinue their lessons.

PHILOSOPHY AND PSYCHOLOGY

<i>Professor:</i>	THOMAS HAYES PROCTER, PH.D. (Chairman.)
<i>Associate Professors:</i>	MICHAEL JACOB ZIGLER, PH.D. MARY LOWELL COOLIDGE, PH.D.
<i>Assistant Professor:</i>	EDITH BRANDT MALLORY, PH.D.
<i>Visiting Lecturer:</i>	ANNA MATHIESSEN, PH.D.
<i>Instructor:</i>	VIRGINIA ONDERDONKE, B.A.
<i>Assistants:</i>	GRACE ALLERTON ANDREWS, M.A. THELMA GORFINKLE ALPER, M.A. ELEANOR CARR PHILLIPS, M.A.

If Mathematics is not chosen to meet the requirement for the degree under the old curriculum, course 101 in Psychology and course 102 in Philosophy must be elected. Course 101 may either precede or follow course 102. Either order has its advantages.

I. PSYCHOLOGY

101. INTRODUCTORY COURSE IN PSYCHOLOGY.

This course is designed to secure to students a comprehensive survey of the field of general psychology, to provide a psychological basis for their study of philosophy, of sociology, and of education and to fit them for more advanced psychological work. Texts: Gamble, *Outline Studies in Psychology*; Woodworth, *Psychology*; and Warren and Carmichael, *Elements of Human Psychology*.

Open to sophomores, juniors and seniors and, by special permission, to approved freshmen. Three hours a week for a semester. Given in both semesters.

Lecturers: MR. ZIGLER, MRS. MALLORY, MISS MATHIESSEN.

Conference Instructors: MRS. ALPER, MISS PHILLIPS.

209. EXPERIMENTAL PSYCHOLOGY, LABORATORY COURSE.

Every student is expected to perform one or two typical experiments in each of the main fields of psychological investigation. The experimental work is supplemented and interpreted by conferences. This course is designed to train the student in psychological method.

Open to students who have completed course 101. Six periods a week of laboratory work, counting three hours a week for a semester. Given in both semesters.

MR. ZIGLER, MRS. MALLORY, MISS MATHIESEN, MRS. ALPER.

204. HISTORY AND METHOD OF PSYCHOLOGICAL EXPERIMENTATION.

This course aims to trace the historical development of the principal movements in experimental psychology and to indicate the steps in refinement of method and technique which have attended advance in these movements. Reference texts include Boring, *A History of Experimental Psychology*, and Murphy, *Historical Introduction to Modern Psychology*.

Open to students who have completed course 101. Three hours a week for a semester. Given in both semesters.

MR. ZIGLER.

210. EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.

This course consists of investigation of special problems by individual students. In 1933-34 problems may be chosen in the following subjects: visual, auditory, tactual and olfactory sensation, association, memorizing, attention, and choice. The methods employed are wider than the problems and are adapted to training students in the fundamental demands of research.

Limited in number and open to students who have shown in course 209 an aptitude for laboratory work. Six periods of laboratory a week, including one or two with instructor, counting three hours a week for a semester. Given in both semesters.

MR. ZIGLER, MRS. MALLORY, MISS MATHIESEN.

207. GENETIC PSYCHOLOGY.

This course presents the characteristic changes in conscious attitude and in behavior tendencies which take place in normal individual development. Attention is given both to the instinctive or unlearned traits and to the differentiating effects of environment and training. The material is primarily that of child psychology, but is supplemented by data drawn from the study of animals and of primitive peoples. The texts include Koffka, *The Growth of the Mind*, and Gesell, *Mental Growth of the Pre-School Child*.

Open to seniors, juniors, and by permission to sophomores who have completed course 101. Three hours a week for the second semester.

MRS. MALLORY.

313. DIFFERENTIAL PSYCHOLOGY.

The course deals with the differences between human beings in mental traits and capacities. It includes a survey of the methods by which psychologists have tried to determine and define such differences; and an intensive study of the test movement, with some training in the giving of tests and in the statistical treatment of results. The reference works include Freeman, *Mental Tests*; Terman, *The Measurement of Intelligence*; Hull, *Aptitude Testing*; Garrett, *Statistics in Psychology and Education*.

Open to students who have completed course 101 and have completed or are taking at least two semester courses chosen from the following: courses 204, 207, 209, 210, 309 and 310 in Psychology; course 306 in Zoölogy; course 320 and the second semester of course 201 in Education. Three hours a week for the first semester.

MRS. MALLORY.

309. ABNORMAL PSYCHOLOGY.

This course includes the following topics: (1) The abnormal phenomena of the normal mind (such as dreaming); (2) the minor mental aberrations in their relation to mental hygiene; (3) mental deficiency and special disabilities; (4) certain major disturbances of which some knowledge is important to the social worker; (5) delinquency in its mental aspects. Reference books include Conklin, *Principles of Abnormal Psychology*; McDougall, *An Outline of Abnormal Psychology*.

Open to students who have completed course 101 and have completed, or are taking, at least two semester courses chosen from the following: courses 204, 207, 209, 210, 313 and 310 in Psychology; course 303 and the second semester of course 202 in Sociology; course 306 in Zoölogy; and the second semester of course 201 in Education. Three hours a week for the first semester.

MISS MATHIESEN.

310. SOCIAL PSYCHOLOGY.

This course includes the following topics: (1) The nature of social consciousness and behavior; (2) such social phenomena as "mob-mind," convention and custom; (3) certain present-day problems, such as racial and national antipathies in their psychological aspects; (4) individual cases of social maladjustment in the light of differential psychology and of mental hygiene. Reference books will include Ewer, *Social Psychology*; Young, *Social Psychology*; and the Case Studies of the Judge Baker Foundation.

Open to students who have completed course 101 and have completed, or are taking, at least two semester courses chosen from the following: courses 204, 207, 209, 210, 313 and 309 in Psychology; course 303 and the second semester of course 202 in Sociology; and the second semester of the course in Group Leadership or of course 201 in Education. Three hours a week for the second semester.

MISS MATHIESEN.

303. ADVANCED COURSE IN EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.

This is an experimental-project course. It resembles course 210 except that greater mastery of laboratory technique is required.

Open to students who have completed course 210. Six periods of laboratory a week, including one or two with instructor, counting three hours a week for the first semester.

MR. ZIGLER, MRS. MALLORY.

308. ADVANCED COURSE IN EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.

This is also an experimental-project course. It may be taken either as a continuation of course 303 or as a substitute for it.

Open to students who have completed course 210. Six periods of laboratory a week, including one or two with instructor, counting three hours a week for the second semester.

MR. ZIGLER, MRS. MALLORY.

324. SEMINARY IN PSYCHOLOGY: TYPES OF PSYCHOLOGICAL THEORY.

This course attempts a comparison of structural, personalistic and behavioristic psychology, "psychology of the unconscious," and *Gestalt* psychology.

Open to graduate students, to seniors who are taking twelve hours in Psychology, and to approved seniors who are taking nine hours. Three hours a week for the second semester.

MR. ZIGLER.

326. SEMINARY COURSE: TRAINING IN THE USE OF PSYCHOLOGICAL SOURCES.

This course is designed to train students to trace the development of special problems through the psychological literature. Experimental contributions bearing upon a topic are analyzed and discussed. This course is given as directed reading with weekly or bi-weekly conferences.

Open to graduate students, and to approved seniors who have completed course 210 and who are interested in experimental research. Three hours a week for the first semester.

MR. ZIGLER.

II. PHILOSOPHY

102. INTRODUCTION TO PHILOSOPHY.

The aim of this course is to stimulate philosophical thinking and to give the student some acquaintance with metaphysical problems and some training in method. The discussions are based on classical texts chosen to illustrate dualism, materialism and idealism. The texts studied include selections from Descartes, Hobbes, and Berkeley.

Open to sophomores, juniors and seniors and, by special permission, to approved freshmen. Three hours a week for a semester. Given in both semesters.

First semester, MR. PROCTER, MISS ONDERDONK.

Second semester, MR. PROCTER, MISS COOLIDGE, MISS ONDERDONK.

111. INTRODUCTION TO PHILOSOPHY THROUGH THE PROBLEMS OF RELIGION.

A brief historical and psychological study of the religious consciousness leading to a discussion of the nature and validity of religious experience in contrast with other types of experience and of the philosophical problems involved in this contrast. Reference texts include Moore, *The Birth and Growth of Religion*; Pratt, *The Religious Consciousness*; Russell, *A Free Man's Worship*; Hocking, *The Meaning of God*; Wells, *God the Invisible King*; Whitehead, *Religion in the Making*.

Open to sophomores, juniors and seniors. Three hours a week for the second semester.

MR. PROCTER.

107. INTRODUCTION TO PHILOSOPHY THROUGH GREEK THOUGHT.

A year course based on the material presented by the Greek thinkers. After a discussion of the various Pre-Socratic schools, special attention is given to Plato's *Apology*, *Crito*, *Phaedo* and *Republic* and to Aristotle's *Ethics* and to parts of the *Metaphysics*. Texts: Bakewell, *Source Book in Greek Philosophy*; Plato, *Selections* (Demos); Plato, *The Republic*; Aristotle, *Selections* (Ross). Supplementary reading.

Open to sophomores, juniors and seniors and, by permission, to approved freshmen. Three hours a week for a year.

MR. PROCTER.

108. LOGIC.

Training in argument and in logical criticism. Work expressly designed to meet the practical needs of the student. The course deals not only with the principles of deductive logic, but also with elementary questions of observation and testimony, and of scientific, statistical, and legal evidence. Text-book: Creighton, *An Introductory Logic* (Smart's Revision).

Open to sophomores, juniors and seniors. Three hours a week for the second semester.

205. ETHICS.

A discussion course for the purpose of clarifying thought about the meaning and rational basis of the moral life. The first part consists of the study and criticism of representative ethical theories. The second part is a constructive attempt to find a satisfactory synthesis of opposing theories and, on this basis, to discuss particular moral problems. References: Rand, *Classical Moralists*; Fite, *Moral Philosophy*; Perry, *The Moral Economy*; Wright, *General Introduction to Ethics*; Everett, *Moral Values*.

Open to sophomores, juniors and seniors who have completed or are taking course 101 or 102, or 107 or 111. Three hours a week for the second semester.

MISS ONDERDONK.

203. AESTHETICS.

This is a discussion course dealing with such problems as those of the nature of our consciousness of beauty, the nature of artistic creation, the subjectivity or the objectivity of standards of criticism, and the relationship of aesthetic and ethical values. The theories considered are those of such classical philosophers as Plato and Schopenhauer, and of such recent writers as Santayana, Puffer, Tufts, Croce and Bosanquet.

Open to sophomores, juniors and seniors who have completed course 101 or 102. Three hours a week for the first semester.

MISS COOLIDGE.

214. STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY.

First semester: Study of the contrasted systems of Spinoza and Leibniz, and the resulting forms of Absolutism and Pluralism in contemporary thought. Second semester: Kant's theory of knowledge, and the consequent development of contemporary Pragmatism and Intuitionism; Hegel's absolute Idealism. Texts: Spinoza, *Ethics*; Leibniz, *Monadology* and *Discourse on Metaphysics*; Hume, *Inquiry Concerning Human Understanding*; Kant, *Critique of Pure Reason* and *Metaphysic of Morality*; Hegel, *Logic of the Encyclopedia*; selections from James, Bergson, Russell and Dewey.

Open in 1933-1934 to juniors and seniors who have completed course 102 and in 1934-1935 to juniors or seniors who have completed courses 102 or 111 or 107. Open also, by special arrangement, to graduate students. Three hours a week for a year.

MISS ONDERDONK.

307. THE HISTORY OF GREEK PHILOSOPHY.

(Not given in 1933-34.) An advanced study of Greek Philosophy, offering more extended and more detailed readings in Plato (with emphasis on the later

dialogues) and also in Aristotle, the Stoics, Epicureans and Neo-Platonists. In addition to the texts of the Greek philosophers, use is made of Robin's *Greek Thought*.

Open to juniors and seniors who have completed four and one-half hours in the department, of which three must be in Philosophy, and, by special permission, to other seniors majoring in related departments. Open also to approved graduate students. Not open to students who have taken course 107. Three hours a week for a year.

MR. PROCTER.

312. MODERN ENGLISH AND AMERICAN REALISTIC PHILOSOPHIES.

The course begins with a brief review of Locke to illustrate the difficulties of the older realism. The modern reaction against idealism is introduced through G. E. Moore's *The Refutation of Idealism*. This is followed by a detailed study of dualistic realism as exemplified by Alexander, Laird and the Critical Realists. The second part of the course consists of a study of monistic realism introduced by James's *Does Consciousness Exist?*

Open to juniors and seniors who have completed course 304 (now course 214) and to graduate students. Three hours a week for the first semester.

MR. PROCTER.

325. A STUDY OF CONTEMPORARY NATURALISTIC, IDEALISTIC, AND PRAGMATIC PHILOSOPHIES.

This course will include a consideration of important nineteenth century thinkers, such as Mill and Spencer, Schopenhauer, and Nietzsche as well as a study of the works of such contemporary writers as Bergson, Croce, Dewey. An opportunity will be given to students with special interests in ethics, logic or metaphysics to work along the lines of these interests.

Open to juniors and seniors who have completed course 304 (now course 214) and to graduate students. Three hours a week for the second semester.

MISS COOLIDGE.

305. THE LOGIC OF HEGEL.

(Not given in 1933-34.) Study of the Logic of Hegel's Encyclopedia in Wallace's translation, with supplementary references to commentators and critics, as basis for the discussion of philosophical method and metaphysical problems.

Open on the same conditions as 325.

350. RESEARCH OR INDIVIDUAL STUDY.

(Not given in 1933-34.)

Open to graduate students and, by permission, to approved seniors. The amount of work contemplated must be indicated at the time of handing in electives.

GRADUATE WORK

The department offers to graduate students direction in independent work both in philosophy and in psychology, and conducts graduate conferences with individual students at stated times.

PHYSICS

Professor: LOUISE SHERWOOD McDOWELL,² PH.D.

Associate Professors: GRACE EVANGELINE DAVIS, M.A. (Chairman.)

LUCY WILSON, PH.D.

Assistant Professors: ALICE HALL ARMSTRONG, PH.D.

DOROTHY HEYWORTH, PH.D.

Laboratory Assistant: MARIAN ELEANOR WHITNEY, B.A.

101. ELEMENTARY PHYSICS.

This course is for beginners, and presents briefly the elementary principles of mechanics, sound, heat, electricity, and light, and their applications. The lectures are fully illustrated by experiments.

Open to students who do not present Physics for admission. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for a year.

MISS WILSON, MISS ARMSTRONG, MISS HEYWORTH, MISS WHITNEY.

104. ELEMENTARY PHYSICS.

This course is for beginners. The same topics are considered as in course 101, but somewhat greater emphasis is placed upon the mathematical development of the subject. The lectures are fully illustrated by experiments.

Open to students who do not present Physics for admission and who have completed or are taking a year course in Mathematics in college. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for a year.

MISS HEYWORTH, MISS ARMSTRONG, MISS WHITNEY.

102. GENERAL PHYSICS: MECHANICS, ELECTRICITY, AND LIGHT.

This course is intended for students who already have an elementary knowledge of physics; it gives a rapid survey of the fundamental principles in mechanics, magnetism and electricity, wave motion and light. The lectures are fully illustrated by experiments.

Open to students who present one unit in Physics for admission. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS ARMSTRONG, MISS WHITNEY

201. ELECTRICITY.

Topics include magnetic and electric fields of force, current, potential difference, resistance, capacity, electromagnetic induction. Lectures and laboratory work are closely correlated and measurements are made with instruments of precision.

Open to students who have completed course 101 or 104 or 102, and by special permission to juniors and seniors who present one unit in Physics for admission. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS DAVIS.

203. METEOROLOGY.

The study of the phenomena of the weather with special attention to the application of the principles of heat. Topics include air pressure, temperature,

²Absent on Sabbatical leave.

progress of storms, cold waves, winds, clouds, precipitation; the principles of weather prediction; atmospheric optical phenomena.

Open to students who have completed course 102 and to sophomores, juniors and seniors who have completed or are taking course 101 or 104 or who present one unit in Physics for admission. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the second semester.

MISS DAVIS.

205.* SOUND.

(Not offered in 1933-34.) A preliminary study of vibrations and wave motion, including reflection, refraction, interference, and the principle of resonance. Properties of musical notes: intensity, pitch and quality; scales and tonal combinations; types of sounding bodies; musical instruments, their characteristics and combinations; architectural acoustics; reception of sound by the ear; reproduction by telephone, phonograph and radio.

Open to students who have completed course 102, and to sophomores, juniors, and seniors who have completed or are taking course 101 or 104 or who present one unit in Physics for admission. Three periods of lecture and discussion, with one two-period laboratory appointment a week, counting three hours a week for the second semester.

206. ELECTRICITY: ALTERNATING CURRENT PHENOMENA.

The production, characteristics and applications of variable currents of electricity; methods of measurement of resistance, inductance and capacity; alternating current instruments; alternating current machinery, generators, motors, and transformers; simple theory and use of electron tubes.

Open to students who have completed course 201. Three periods of lecture and discussion, with one three-period laboratory appointment a week counting three hours a week for the second semester.

MISS ARMSTRONG.

204. THE AUTOMOBILE: PRINCIPLES AND CONSTRUCTION.

The internal combustion engine; carburetors; systems of ignition, starting and lighting, and transmission. Lectures with demonstrations to illustrate the physical principles involved. Individual laboratory study of various automobile mechanisms.

Open by permission to sophomores, juniors and seniors who have completed course 101 or 104 or 102 or who present one unit in Physics for admission. One period of lecture or one three-period laboratory appointment a week, counting one hour a week for a year.

MISS WILSON.

301.† LIGHT.

The wave theory and its application to the phenomena of dispersion, interference, diffraction, double refraction, and polarization; theory and use of optical instruments; brief discussion of the quantum theory.

Open to juniors and seniors who have completed a course of grade II in Physics, or a year course of grade I in Physics and a year course of grade I in Astronomy.

* Offered in cooperation with the Department of Music.

† Astronomy 301, to which Physics 301 is prerequisite, may be counted toward a major in Physics.

Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the first semester.

MISS WILSON.

302. ELECTROMAGNETIC OSCILLATIONS AND THE PRINCIPLES OF RADIO COMMUNICATION.

(Not offered in 1933-34.) The production and detection of electromagnetic oscillations; the effect of resistance, inductance and capacity; resonance, damping, coupled circuits; electron tubes and their application to the transmission, reception and amplification of electromagnetic waves. Experimental lectures with individual laboratory study.

Open to juniors and seniors who have completed course 206 in Physics and course 106 or 107 in Mathematics. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester.

303. ELECTRONIC PHYSICS.

The course gives a brief introduction to the quantum theory and theories of the structure of the atom and considers in some detail the evidence offered by the phenomena of cathode rays, X-rays, positive rays, radioactivity, isotopes, photo-electricity, ionization and optical spectra. The treatment is non-mathematical.

Open to juniors and seniors who have completed course 201 or 301 in Physics and who have completed or are taking a year of Chemistry, or who have completed a course of grade I in Physics and have completed or are taking course 305 in Chemistry. Three hours a week for the second semester.

MISS WILSON.

304.† THEORETICAL ELECTRICITY AND MAGNETISM.

The work is based upon Starling's *Electricity and Magnetism* and free use is made of the calculus.

Open to juniors and seniors who have completed course 201 and also course 202 in Mathematics. Three hours a week for the first semester.

MISS HEYWORTH.

305.† MECHANICS.

Equations of motion; simple harmonic motion; central orbits; statics of rigid bodies; work, energy; dynamics of a particle; motion of rigid bodies. Emphasis is placed on the application of mathematics, especially plane analytic geometry and the calculus, to physics; use is made of differential equations.

Open to students who have completed course 101 or 104 or 102 in Physics and course 202 in Mathematics. When combined with course 303 in Mathematics it may be counted toward a major in Mathematics. Three hours a week for the second semester.

MISS HEYWORTH.

308. BIO-PHYSICS.

(Not offered in 1933-34.) This course deals with those parts of physics, especially surface-tension, heat, light, and electricity, that are essential to a knowledge of modern biology, physiology, and medicine. Readings and lectures are designed to explain our present conceptions of the principal biological processes that are physical in nature and the ways in which physical apparatus is

† Mathematics 303, if followed by Physics 304 or 305, may be counted toward a major in Physics.

used to investigate organisms. Laboratory exercises enable the student to visualize the processes more clearly and to obtain practice in using apparatus commonly employed in medical and advanced biological laboratories.

Open to juniors and seniors who have completed in college one year of Physics and one year of either Botany or Zoölogy. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester.

307. LABORATORY TECHNIQUE.

Practice arranged to fit the needs of the individual student. Photography, including the making of lanternslides; glass blowing; silvering; shop work, including the use of the lathe.

Open to juniors and seniors who have completed or are taking a course of grade III in the department, and by special permission to advanced students in other science departments. One three-period laboratory appointment a week, counting one hour a week for a year.

THE STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

The work will be under the direction of the member of the department in whose field the work lies. Opportunity will be offered for a series of experiments as well as for investigation of a single problem.

Open to graduate students and by permission of the department, to juniors and seniors who have completed nine hours in the department. To count two to three hours a week for a semester or for a year. By permission the work may be arranged to count one hour for the first semester in case two or three hours are elected for the second semester.

SPANISH

Professor: ALICE HUNTINGTON BUSHEE, M.A. (Chairman.)
Assistant Professors: ADA MAY COE, M.A.
ANITA OYARZÁBAL.
HELEN PHIPPS HOUCK, PH.D.

A reading knowledge of French is required for all grade III work and desirable in all courses. The language of the class room is Spanish.

101.† ELEMENTARY COURSE.

Grammar, composition, dictation, conversation, prepared and sight translation, short lectures in Spanish.

Open to students who do not present Spanish for admission. Three hours a week for a year. Miss BUSHEE, Miss COE, Miss OYARZÁBAL, Mrs. HOUCK.

102. INTERMEDIATE COURSE.

Grammar, composition, themes, lectures, reading from modern authors and selections from *Don Quijote*.

Open to students who have completed course 101 or an equivalent. Three hours a week for a year. Miss OYARZÁBAL.

† Course 101 if taken in the senior year may not count within the minimum number of hours prescribed for a degree under the old curriculum.

103. OUTLINE HISTORY OF SPANISH LITERATURE.

A survey course with illustrative reading, planned especially for those who intend to major in Spanish.

Open to students who present three units in Spanish for admission, and on recommendation of the department to students who have completed course 101. Three hours a week for a year.

MRS. HOUCK.

201. SPANISH LITERATURE IN THE NINETEENTH CENTURY.

The aim of this course is to give the student a general idea of Spanish literature after the Golden Age: the French influence, Romanticism, and the noted authors of the latter part of the nineteenth century. This includes the rapid reading of both prose and poetry.

Open to students who have completed course 102 or 103. Three hours a week for a year.

MISS BUSHEE.

203. ADVANCED CONVERSATION AND COMPOSITION.

This course is designed to give special opportunity for conversation, composition and the acquisition of a large working vocabulary. The work is based on Spanish life, institutions and history.

Open to students who have completed course 103 and to approved students who have completed course 102. One hour a week for a year.

MISS OYARZÁBAL.

204. CONTEMPORARY SPANISH LITERATURE.

A survey of the literary movement since 1898 as represented by the novel, drama and essay.

Open to students who have completed course 102 or 103. Three hours a week for a year.

MISS OYARZÁBAL.

301. DRAMA OF THE GOLDEN AGE.

This course will be introduced by a short general outline of the historical and literary influences at work during the period. Characteristic dramas of Lope de Vega, Alarcón, Tirso de Molina, and Calderón will be studied as representative of the nation's thought and ideals at the time.

Open to juniors and seniors who have completed course 201 or 204. Three hours a week for a year.

MISS COE.

302. THE SPANISH NOVEL.

The first semester will be devoted to a general study of the novel before 1650, especially the *caballerescas*, *picarescas*, and *pastoril*. During the second semester *Don Quijote* will be studied.

Open to juniors and seniors who have completed course 201 or 204. Three hours a week for a year.

MRS. HOUCK.

303. OLD SPANISH LITERATURE FROM 1150 TO 1500.

Study of *El Poema del Cid* and other characteristic works of the period.

Open to graduates and to approved seniors who have completed at least one course of grade III. Three hours a week for a year.

MISS BUSHEE.

304. SPANISH POETRY.

(Not given in 1933-34.) Special study of the *romances* and their relation to the drama and of the poetry of the Golden Age.

Open to graduates and approved seniors who have completed at least one course of grade III. Three hours a week for a year. MISS COE.

305. CERVANTES.

(Not given in 1933-34.) A careful comparative study of the works of Cervantes.

Open to graduates and approved seniors who have completed course 302. Three hours a week for a year. MISS BUSHEE.

306. MODERN SPANISH AMERICAN LITERATURE.

(Not given in 1933-34.) The aim of this course is to show the influences at work in the making of Spanish American Literature with the reaction, especially in poetry, on the literature of Spain.

Open to juniors and seniors who have completed course 201 and History 214 or an equivalent. Three hours a week for a year. MISS COE.

350. RESEARCH OR INDIVIDUAL STUDY.

(Not given in 1933-34.)

Open by permission to a limited number of seniors who are taking or have completed a course of grade III in the department. One to three hours a week for a year or two to three for a semester. The amount of work contemplated must be indicated at the time of handing in electives. MISS BUSHEE, MISS COE, MRS. HOUCK.

SPEECH

Assistant Professors: EDITH MARGARET SMAILL,⁵ A.A.
EDITH WINIFRED MOSES, M.A. (Chairman.)

Instructors: OLIVIA MARIA HOBGOOD, M.A.
CÉCILE DE BANKE.

MARY LENA WADSWORTH,⁷
Assistant: REBECCA GALLAGHER, M.F.A.

Six hours in this department in addition to course 104 may be counted within the minimum number of hours required for the B.A. degree.

101. FUNDAMENTALS OF VOCAL EXPRESSION.

It is the purpose of this course to develop the ability to read aloud simply and easily and to speak with clearness and conviction. Study of various forms of literature; exercises to free the body and voice; phonetics and enunciation.

Open to all undergraduates. Three hours a week for a year.

MISS MOSES, MISS HOBGOOD, MISS DE BANKE, MRS. WADSWORTH.

104. VOICE AND DICTION.

This course is intended to promote right habits in the production of voice for ordinary speaking and to increase precision in articulation, enunciation and pronunciation.

⁵ Absent on leave for the second semester.

⁷ Appointed for the second semester only.

Required of sophomores except those who have been exempted by examination or have completed or are taking course 101. Not open to students who have completed course 101. One hour a week for a year.

MISS MOSES, MISS HOBGOOD, MISS DE BANKE, MRS. WADSWORTH.

201. ORAL INTERPRETATION OF MODERN DRAMA AND MODERN POETRY.

This course is designed primarily to develop the imaginative and creative power of the individual and to arouse an appreciation of the educational value of interpretative expression.

Open to students who have completed one three-hour course in the department, also to those who have completed or are taking English Literature 210 or 307. Three hours a week for a year.

First semester, Miss SMAILL.

Second semester, Miss DE BANKE.

202. SPEECHES FOR SPECIAL OCCASIONS.

A study of the principles of delivery and application of these to public address, including the speech of introduction, welcome, presentation of a gift; the after-dinner speech; speech of personal tribute or of commemoration of an important event; the speech designed to persuade an audience to take action. Presentation and criticism of original speeches; use of manuscript, memorized and extemporeaneous delivery.

Open to students who have completed course 101 or 104. Three hours a week for a year.

Miss MOSES.

203.† THE ART OF PLAY PRODUCTION.

A brief survey of the stage in the Greek and Roman, Mediaeval, Shakespearean, Eighteenth Century, and Contemporary periods. Preparation of plays—setting, lighting, costuming, casting, acting, directing.

Open to juniors and seniors. Three hours a week for a year.

Director, Miss SMAILL.

Assistant, Miss GALLAGHER.

301. DRAMATIC INTERPRETATION OF SHAKESPEARE.

Two full plays, a comedy and a tragedy, will be studied for oral interpretation. Great scenes from these and from other plays in which women have major parts will be acted under student direction.

Open to students who have completed one three-hour course in the department, also to those who have completed or are taking English Literature 205 or 309. Three hours a week for a year.

First semester, Miss SMAILL.

Second semester, Miss HOBGOOD.

† A special fee of \$25.00 is charged for Speech 203.

ZOOLOGY AND PHYSIOLOGY

<i>Professors:</i>	MARIAN ELIZABETH HUBBARD, B.S. JULIA ELEANOR MOODY, PH.D. (Chairman.)
<i>Associate Professor:</i>	MARGARET ALGER HAYDEN, PH.D.
<i>Assistant Professors:</i>	HELEN WARTON KAAN, PH.D. HARRIET CUTLER WATERMAN, PH.D. GLADYS KATHRYN McCOSH, PH.D. MARY LELLAH AUSTIN, PH.D.
<i>Instructors:</i>	ADA ROBERTA HALL, PH.D. MARGARET ELLIOTT VAN WINKLE, M.S. CURATOR OF MUSEUM. ELIZABETH SANDERS HOBBS, D.Sc. ROSEMARY ANNE MURPHY, M.A.
<i>Laboratory Assistants:</i>	JUDITH SILL WARDWELL, B.A. ELEANOR LEACH, M.A. ADA THOMPSON AHEARN, B.A. Gwynneth Pease, B.A.
<i>Secretary and Custodian:</i>	KATHLEEN MILICENT LEAVITT.

101. THE BIOLOGY OF ANIMALS.

This course aims to furnish a basis for the interpretation of life as it appears in the animal world, including man. The study of a series of forms of increasing complexity develops a conception of what an animal is, and of how animals have arisen through evolution in the past. The study of cells, particularly the germ cells, leads to an understanding of the mechanism of heredity. Through the second semester runs a series of lectures and discussions on the evidences and factors of evolution, on heredity and eugenics.

Open to all undergraduates. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year.

MISS HUBBARD, MISS HAYDEN, MISS McCOSH,
MISS AUSTIN, MRS. VAN WINKLE, MRS. HOBBS.

ZOOLOGY

203. VERTEBRATE ZOOLOGY.

Evidences of evolution from the study of comparative anatomy and the development of the vertebrates, based upon a careful dissection of dogfish, *Necturus*, and cat. The aim throughout is to trace the evolution of the vertebrate type with particular reference to the history of the human body. Lectures, laboratory and museum work.

Open to juniors and seniors without prerequisites, and to other students who have completed course 101. Five-year Hygiene students electing this course must also take course 301. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year.

MISS MOODY, MISS WATERMAN.

204. ANIMAL ECOLOGY.

A study of representative members of certain phyla, especially those in the local fauna, based upon their distribution and natural history. Emphasis will be placed upon their behavior and activities, the relations existing between them and their environment, and their relations with each other. Observations will be made of particular adaptive structures, such as the food-taking apparatus, locomotor structures, and hibernating devices. Lectures, laboratory, and field work.

Open to students who have completed course 101. Six periods a week, counting three hours a week for a year.

MISS McCOSH.

301. MAMMALIAN ANATOMY (HYGIENE 301).

Lectures and laboratory work on the gross anatomy of bones and muscles.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students. If counted as part of a major in Zoölogy, course 301 should be preceded by course 101. Three periods a week, in general one of lecture, discussion or quiz, and two of laboratory, counting two hours a week for the first semester.

MISS WATERMAN.

313. MAMMALIAN ANATOMY (HYGIENE 313).

Lectures and laboratory work on the digestive, respiratory, excretory, reproductive, circulatory and nervous systems.

Required of first-year graduate students in the department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students, with the exception of those students who have already completed course 203. If counted as part of a major in Zoölogy, course 313 should be preceded by courses 101 and 301. Three periods a week, in general one of lecture, discussion or quiz, and two of laboratory, counting two hours a week for the second semester.

MISS WATERMAN.

303. HISTOLOGY AND HISTOLOGICAL TECHNIQUE.

This course aims to give the student a clear understanding of the structural appearance of the fundamental tissues and of some of the organs of the animal body. The emphasis is placed on a study of the mammalian tissues. The mode of origin of the principal tissues and their chief physiological aspects are briefly considered. The theory and practice of laboratory methods in fixing, hardening, embedding, sectioning, staining, and mounting of microscopical preparations are also included.

Open to juniors and seniors who have completed or are taking course 203 or 204 or 308. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the first semester.

MISS KAAN.

304. EMBRYOLOGY.

The course concerns itself with an analysis of the development and structure of the germ cells, the fertilization and cleavage of the egg, and the formation of the principal structures of the vertebrate body. Invertebrate material is utilized for laboratory work on the early stages, and the chick and pig are studied for later development. The student acquires a practical knowledge of general embryological technique.

Open to juniors and seniors who have completed or are taking course 203 or 204 or 308. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the second semester.

MISS KAAN.

305. THEORIES AND PROBLEMS OF ZOOLOGY.

A critical study of the past and present theories and problems of Zoölogy, and the history of their development; including the questions of the origin of life, development, evolution, and heredity.

Open to students completing a twelve-hour major, and under special conditions to others with the approval of the department. Three hours a week for the second semester.

MISS MOODY.

306. HEREDITY.

Problems in variation and heredity, with a critical study of the cytological and genetical evidence found in animals, and the application of these principles to human inheritance. Practical breeding tests with *Drosophila* and guinea-pigs. Discussion of recent papers bearing on these problems.

Open to students completing a twelve-hour major; to five-year Hygiene students completing a major in Zoölogy, and to others under certain conditions with the approval of the department. Three hours a week for the first semester.

MISS MOODY.

310. THE HISTOLOGY OF THE ORGANS.

A systematic study of the microscopic structure of organs, with particular reference to function. It will include a study of glands of internal secretion, the organs of the digestive, excretory, respiratory, reproductive and nervous systems, and organs of special sense. There will be practical work in special methods of histological technique.

Open to juniors and seniors who have completed course 303. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the second semester.

MISS KAAN.

314. CYTOLOGY.

This course treats of the biology of the cell, including the structure of protoplasm, nucleus, cytoplasm; the phenomena of mitosis, maturation, fertilization; the relation of cellular structure to sex and heredity. Some training is offered in the technique of cytological preparation.

Open to approved students completing a twelve-hour major in Zoölogy. Six periods a week, in general two of lecture, discussion or quiz and four of laboratory, counting three hours a week for the first semester.

MISS HAYDEN.

315. PROTOZOÖLOGY.

This course will include (1) a study of the morphology, taxonomy and interrelationship of the Protozoa, in order to introduce the student to the vast series of forms comprised in this group; (2) a study of their general physiology; (3) a consideration of some of the problems of broad biological significance illustrated by a study of the group.

Open to approved students completing a twelve-hour major in Zoölogy. Six periods a week, in general two of lecture, discussion or quiz and four of laboratory, counting three hours a week for the second semester.

MISS AUSTIN.

350. RESEARCH OR INDIVIDUAL STUDY.

This course offers elementary research problems in Histology, Embryology, Invertebrate and Vertebrate Zoölogy, Ecology, Cytology, Protozoölogy and Physiology. Independent work will be required of the student under the direction of the instructor in the field chosen.

Open to graduate students and, with the advice of the department, to approved seniors who have completed or who are completing a twelve-hour major in Zoölogy. Three to six periods a week, counting one and one-half to three hours for a year, or six periods a week, counting three hours a week for a semester. For graduate students, three to twelve periods a week, counting one and one-half to six hours for a year, or six to twelve periods, counting three to six hours for a semester. The amount of work contemplated must be indicated at the time of handing in electives.

PHYSIOLOGY

302. GENERAL PHYSIOLOGY (HYGIENE 302).

The course aims to give a fundamental knowledge of general physiological processes. It includes elementary physical and chemical phenomena of living organisms, and a study of the coördinated systems in mammalian forms. Lectures, demonstrations and laboratory work cover simple chemical studies of the constituents of living matter, and observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also required of students registered for the five-year Hygiene course, either in the junior or senior year. If counted as part of a major in Zoölogy, course 302 should be preceded by course 101. Open to Hygiene students only; others take course 308. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year.

MISS HALL.

308. GENERAL PHYSIOLOGY.

The course aims to give a fundamental knowledge of general physiological processes. It includes elementary physical and chemical phenomena of living organisms, and a study of the coördinated systems in mammalian forms. Lectures, demonstrations and laboratory work cover simple chemical studies of the constituents of living matter, and observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Open to students who offer as prerequisites Zoölogy 101 and Chemistry 101 or 102; or to students who in addition to fulfilling the Chemistry requirement have completed or are taking Zoölogy 203. Open by special permission without prerequisites to students majoring in Chemistry. Chemistry 301 is recommended as a parallel course. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year.

MISS MURPHY.

309. METABOLISM.

(Not offered in 1933-34.) A study of relationships involved in waste and repair in the animal body and in energy changes. The course will present nitrogen, mineral and vitamin metabolism, and by feeding experiments with animals will illustrate characteristic deficiency conditions. The work on gaseous exchange will include a clinical method of determining basal metabolism; also a consideration of the influence of internal secretions on the oxygen consumption, and the variations of the latter concomitant with disease.

Open to students who have completed course 308 or 302 and Chemistry 301. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for a year.

311. PHYSIOLOGY OF THE NERVOUS SYSTEM.

A study of the control of the animal organism through the central nervous system and the organs of special sense. The course includes a consideration of the theories of conductivity, and of the physiological basis of mental processes and behavior.

Open to students who have completed course 308 or 302. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the first semester.

MISS HALL.

312. PHYSIOLOGY OF NUTRITION.

The course includes the study of assimilation by tissue cells as well as the process involved in normal digestion and absorption of foodstuffs. Normal and faulty nutrition will be compared by feeding experiments with animals. The laboratory work will include macroscopic and microscopic studies on digestive organs and glands, and a study of their motivation by nervous and chemical (hormonal) means.

Open to students who have completed course 308 or 302. Chemistry 301 is not required as a prerequisite but is recommended. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the second semester.

MISS MURPHY.

316. PHYSIOLOGY OF THE ENDOCRINE GLANDS.

A study of the chemical control of the animal organism through the secretions of the endocrine glands. Individual problems will constitute a part of this course.

Open to students who have completed course 302 or 308. Six periods a week, in general two of lecture, discussion or quiz, and four of laboratory, counting three hours a week for the second semester.

MISS HALL.

350. RESEARCH OR INDIVIDUAL STUDY.

(See Zoölogy.)

EXPENSES

I. For resident students

Tuition for the year	\$400
Board and room for the year	600
	— \$1,000

II. For non-resident students

Tuition for the year	\$400
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Students who are permitted to take *seven hours or less* of class room work a week, and *who do not live in college buildings*, pay tuition by the course as follows: for a one-hour course, \$50; a two-hour course, \$100; a three-hour course, \$150. Payment is due at the beginning of the year.

FIXED TIMES AND AMOUNTS OF PAYMENT

I. For students who room in college buildings

August 15	\$50
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Deposit to reserve a place in college for the ensuing year. Failure to make such deposit will mean loss of enrollment. No part of any scholarship or loan awarded by Wellesley College and ordinarily no part of a grant from the Wellesley Students' Aid Society can be applied on this payment. The deposit is not refundable.

Unless requested the College does not expect to send receipts for this deposit, as cancelled checks will be receipts.

September (at the opening of college)

On account of tuition	\$200
On account of board and room	300
	— 500

February (before the beginning of the second semester)

Balance on tuition	\$150
Balance on board and room	300
	— 450

Total for the year	\$1,000
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The regular charge for board begins at the opening of college houses.

II. For students who do not room in college buildings

August 15	\$50
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Deposit to reserve a place in college for the ensuing year. Failure to make such deposit will mean loss of enrollment. No part of any scholarship or loan awarded by Wellesley College and ordinarily no part of a grant from the Wellesley

Students' Aid Society can be applied on this payment. The deposit is not refundable.

Unless requested the College does not expect to send receipts for this deposit, as cancelled checks will be receipts.

September (at the opening of college)	\$200
February (before the beginning of the second semester)	150
Total for the year	\$400

Graduate and special students who do not live in college buildings make payment for room and board directly to the management of the private houses in which they have secured lodging and meals, at such rates and times as the parties to the arrangement may agree upon. Information regarding boarding places may be obtained by addressing the Dean of Residence.

 *Payments must be made before the student can take her place in the class room. No exception will be made to this rule without a written permission from the Assistant Treasurer.*

 *Checks or money orders should be made payable to Wellesley College. If sent by mail, they should be addressed to the Assistant Treasurer.*

 *There are no deductions for absences, and no refunds save in exceptional cases of which the College shall be the sole judge.*

TUITION AND OTHER CHARGES IN DEPARTMENT OF MUSIC

For instruction for the college year in Pianoforte, Organ, Violin or Voice, two lessons a week	\$150
One lesson a week	75
(Lessons thirty minutes in length)	
For use of the Pianoforte, one period daily for the college year	15
For two or three periods daily, in proportion.	
For use of the Pipe Organ in Music Hall, one period daily for the college year	20
For two or three periods daily, in proportion.	

Special arrangements may be made for lessons on instruments not mentioned above.

Tuition in music is payable in advance in two equal installments, one at the beginning of each semester, and *is not subject to return or deduction* since no student may elect music for a shorter period than one semester.

FEES

I. Undergraduate.

a. Application Fee.

An application fee of \$10 is required from all candidates for admission, and no application is recorded until the fee is received. The same fee is required from

all former students who apply for readmission. If the fee of \$10 for application for admission to college was paid *before* March 15, 1931, it will be credited on the first payment for tuition. As heretofore announced, application fees paid *after* March 15, 1931, will not be credited on any bill. If the application is cancelled for any reason the fee is forfeited to the College. A student who postpones entrance until the year following the one for which she first applied may transfer her application fee.

b. Diploma Fee.

At the time of taking the B.A. degree or the certificate in Hygiene and Physical Education, a diploma fee of \$10 is charged.

NOTE:—Every student should also reckon on an expenditure of \$15 to \$30 annually for the purchase of books.

II. Graduate.

A matriculation fee of \$5 is payable when an applicant is accepted as a graduate student. The amount of this fee will be deducted from the diploma fee of \$25 payable for the Masters' degree, or from the fee of \$10 payable for the certificate in Hygiene and Physical Education.

 *No student may receive a diploma until a satisfactory settlement of all her college dues has been made.*

HALLS OF RESIDENCE

The residence halls within the limits of the campus are situated as follows: Hazard Quadrangle—Beebe, Cazenove, Pomeroy, Shafer, with Munger adjacent; Tower Court group—Claflin, Crawford, Severance, Tower Court; Stone group—Dower, Homestead, Olive Davis, Stone; Hill group—Norumbega, Freeman. In addition to these houses the College maintains four houses on property immediately adjoining the college grounds: Eliot, Elms and Noanett for freshmen; Crofton for graduate students. In all houses the rooms are furnished, and equipped with desk lamps. A Head of House, appointed by the President of the College, presides over each house.

Rooms are assigned to new students in the order in which their original application fees have been received.

HEALTH

The college physicians, together with the Director of the Department of Hygiene and Physical Education, and (*ex officiis*) the President, the Dean of the College, the Dean of Residence, and the Class Deans constitute a board of health to which all matters affecting the health of students are referred. Simpson Cottage is maintained as an infirmary under the charge of the Resident Physician. Three trained nurses are in constant attendance. The privileges of the infirmary, when prescribed by the Resident Physician, are open to all students without charge for a period not exceeding seven days, provided no extra service is required. There will be a charge at the rate of \$2.25 a day for periods exceeding seven days. Charges for extra service will be determined by the

amount required. The services of the college physicians for consultation and treatment are free to all students.

FELLOWSHIPS AND SCHOLARSHIPS

A. FOR GRADUATES

THE ALICE FREEMAN PALMER FELLOWSHIP, yielding an income of not less than \$1,400, was founded in 1903, by Mrs. David P. Kimball. The holder of this fellowship must be a graduate of Wellesley College or of some other American college of approved standing, a young woman of good health, not more than twenty-six years of age at the time of her appointment, unmarried throughout the whole of her tenure, and as free as possible from other responsibilities. The same person will not be eligible to the fellowship for more than two years.

The fellowship may be used for study abroad, for study at any American college or university, or privately for independent research. Several times during the period of tenure the holder of the fellowship must furnish evidence that it is used for purposes of serious study and not for general culture; and within three years from entrance on the fellowship she must present to the faculty a thesis embodying the results of the research carried on during the period of tenure.

Applications for this fellowship should be received by the President of Wellesley College not later than February first of the academic year preceding that for which the fellowship is asked. A form to be used in making application may be obtained from the Office of the President, Wellesley College. This application must be accompanied by theses or papers presenting evidence of the most advanced work of the candidate, since the fellowship is not assigned on the basis of unsupported credentials, however commendatory.

FANNY BULLOCK WORKMAN SCHOLARSHIP, yielding an income of not less than \$1,200, was founded in 1929 by the bequest of Mrs. Fanny Bullock Workman.

The holder of this scholarship shall be a woman holding a degree from Wellesley College. She shall present evidence of (a) good health, (b) character, (c) financial need, and (d) ability; and shall be free from personal obligation which would interfere with study. The scholarship may be used to assist preparation for "any useful work." Twice during the period of tenure the holder of the scholarship shall furnish evidence of work done; and not later than one year after the completion of the period, a full report or other suitable evidence of the use to which the scholarship has been applied shall be presented.

The application for this scholarship should be received by the President of Wellesley College not later than February first of the academic year preceding that for which the scholarship is asked. A form to be used in making application may be obtained from the Office of the President, Wellesley College. The application must be accompanied by evidence of the most advanced work of the candidate in her chosen field.

THE HORTON-HALLOWELL FELLOWSHIP has been established by the Alumnae Association of Wellesley College in honor of Mary E. Horton, the first professor of Greek, and Susan M. Hallowell, the first professor of Botany. It is open to

alumnae of Wellesley College for graduate study in candidacy for the degree of Doctor of Philosophy or for private research of equivalent standard. The amount of the fellowship for 1933-34 is \$1,250.

Application should be made by letter from the candidate to the Fellowship Committee of the Alumnae Association making the award. The applicant should describe fully the plan of study which she proposes to follow if granted the fellowship, and her preparation for this work. The letter should be accompanied by such specimens of the written work of the candidate as may best demonstrate her ability to carry on independent study in her chosen field. Before making formal application the candidate should obtain more detailed information from the committee.

Applications should be received before February fifteenth of the year preceding that for which the fellowship is desired. All communications regarding the fellowship should be addressed to the Chairman of the Fellowship Committee, Alumnae Office, Wellesley College.

RESEARCH FELLOWSHIP FOR THE STUDY OF ORTHOPÆDICS IN RELATION TO HYGIENE AND PHYSICAL EDUCATION, yielding \$1,000.

The general requirements to be met by applicants are as follows:—good health; the bachelor's degree from a college or university of good standing; sound preparation in chemistry, physics, and biology; special preparation in anatomy, kinesiology, and physiology; familiarity with the elements of orthopædic theory and practice; and an insight into some one or more of the problems of orthopædics as related to hygiene and physical education.

The work on the problem chosen in consultation with the department must be done in residence at Wellesley College. It will, in general, begin in the September following the acceptance of the applicant, and will continue through one calendar year. It will involve kinesiology, applied physiology, and the study of clinical material. For the latter, opportunity will be provided to study the work of orthopædic surgeons in Boston and other eastern cities. The results of the investigation are to be embodied in a thesis to be submitted to the department and published.

Applications for this fellowship should be received by the Chairman of Department of Hygiene and Physical Education, Wellesley College, not later than March first of the academic year preceding that for which the fellowship is asked. The decision reached by the department will be based upon the applicant's record, upon personal correspondence, and, when possible, upon personal interviews.

THE LORETTA FISH CARNEY MEMORIAL SCHOLARSHIP of \$1,200 was founded in 1920 by the alumnae and staff of the Boston Normal School of Gymnastics and the Department of Hygiene and Physical Education of Wellesley College; the income of this fund to be awarded, at the discretion of the teaching staff of the department and of the President of the College, to a senior in the department.

THE AMY MORRIS HOMANS SCHOLARSHIP FUND of \$6,700 was founded in 1924 by the Mary Hemenway Alumnae Association of the Graduate Department of Hygiene and Physical Education in honor of Miss Amy Morris Homans, pioneer and leader in physical education in the United States; the income of this fund to

be awarded to a student in the Graduate Department of Hygiene and Physical Education who is in need of assistance and shows proficiency and promise.

THE TRUSTEE GRADUATE SCHOLARSHIPS. Two scholarships yielding an income of \$750 each have been established by the Trustees of Wellesley College for members of the senior class who are qualified for graduate work. The scholarships may be used for study in this country or abroad. Notice of the conditions of application are sent by the Dean of Graduate Students in the spring of each year to qualified seniors.

EIGHTEEN GRADUATE SCHOLARSHIPS of the annual value of tuition for one year have been established for the benefit of approved candidates for the Master's degree in residence at Wellesley College. Application for one of these scholarships should be made before March first by personal letter from the candidate to the Dean of Graduate Students, Wellesley College, stating the applicant's reasons for desiring to do graduate work in the department chosen, and her reason for applying for the scholarship. The award will be made after the candidate's formal application for admission to graduate work has been accepted.

Laboratory assistants and other members of the official staff of the College are granted the privileges of graduate study without tuition charge.

GRADUATE STUDY IN CLASSICS:—

The American School of Classical Studies in Athens offers special opportunity for graduate study in Greek. Membership without tuition,* is open to all graduates and graduate students of Wellesley College who have done sufficient work in Greek and Archæology to profit by the opportunity. The object of the School is to furnish an opportunity to study in Greece the literature, art, antiquities, and history of the country under suitable guidance; to prosecute and to aid original research in these subjects; and to assist in the exploration and excavation of classic sites. Three fellowships of \$1,000 each are awarded annually on the basis of competitive examinations and are open to graduates of the co-operating colleges of which Wellesley College is one. For further information apply to Assistant Professor McCarthy.

The American School of Classical Studies in Rome is an integral part of The American Academy. The object of this School is to promote the study of classical literature in its bearing upon antiquities and history; of classical, Etruscan, and Italian art and archæology, including topography, palæography, and epigraphy, and of the art and archæology of the early Christian, Mediæval, and Renaissance periods within the boundaries of Italy. It furnishes regular instruction and guidance in some or all of these subjects, encourages and assists in original research and exploration. Students should have the ability to read ordinary Greek and Latin prose at sight and to use French and German as instruments of research; they will find an elementary knowledge of Italian very useful. Those admitted are expected to put themselves under the guidance of the Director of the Academy and the Professor in charge of the Classical School for the full period of eight months. Duly qualified graduates of Wellesley Col-

* The income of the Julia Josephine Irvine Fund makes possible the studentships in the American School of Classical Studies in Athens.

lege are exempt from any charge for tuition. Three Fellowships in the School of Classical Studies are offered by the Academy, each with a stipend of \$1,500 a year for two years, and an allowance of \$500 for transportation to and from Rome. The academic year begins on the first day of October and students are expected to report in Rome at the Academy on that day. A Summer School established in 1923 offers a programme of great value for students and teachers of the classics. For further information application may be made to Associate Professor A. Bertha Miller.

SCHOLARSHIPS IN THE MARINE BIOLOGICAL LABORATORY AT WOODS HOLE.—Admission to courses at Woods Hole is upon a selective basis. Wellesley College offers annually two scholarships to applicants who are successful candidates. This laboratory is primarily for research, but in the summer courses of instruction are offered, four in Zoölogy and one in Botany. The purpose of these courses is to aid in the production and training of investigators, and first consideration is given to persons who, whether graduate or undergraduate, give promise of contributing to the advancement of science. Applicants must have completed at least two full college courses in the subject in which they wish to work. The laboratory offers, besides these courses of instruction, opportunity for research, either under direction or independent. In addition, there are courses of lectures on special topics and on subjects of general biological interest.

Applicants should state the character of the work to be done, whether botanical or zoölogical, whether courses of instruction are desired, or investigation under direction. All applications should be sent to Professor Snow or Professor Moody in time to reach Wellesley College before April first. These applications will be forwarded to Woods Hole to be acted upon May fifteenth; after this date notification will be sent to the successful candidates.

B. FOR UNDERGRADUATES

The scholarships listed are awarded in recognition of genuine pecuniary need and of satisfactory character, college citizenship, health, and intellectual and practical ability as tested by a year or more of life and study at Wellesley College. The foundations are of varying amounts, and the income is apportioned as justly as possible according to need and merit. These scholarships are intended primarily for students who have completed one or more years' work at Wellesley College. Provision for new students and additional provision for other students have been made as indicated below.

Beginning with the academic year 1926-27 the Trustees have set aside annually a sum for the aid of students of recognized intellectual ability who are financially unable to meet the charges for tuition and residence. The scholarships vary from \$100 to \$300 with occasional exceptions, and are awarded on the basis of merit with due consideration to need, scholarship attainment, and personal qualities. *Applications from new students* for scholarships should be made to the Secretary of the Board of Admission before March first of the year of admission.

Competitive Scholarships for Freshmen. Six competitive scholarships for one year's tuition, \$400, are awarded annually on the basis of entrance examinations to members of the freshman class needing financial assistance. One of

these scholarships will be given to the freshman who has made the highest average grade in her entrance examinations. The other five scholarships will be assigned by districts in the following divisions of states: New England, Middle Atlantic, Southern, Middle Western, and Far Western. In each district the freshman making the highest examination grade will ordinarily receive the award, but if no student attains a sufficiently high average, the award will not be made. Applications for these competitive scholarships should be made to the Secretary of the Board of Admission before March first of the year of admission.

Applications from students in College must be filed with the Executive Secretary of the College, who is Chairman of the Faculty Committee on Scholarships, before March first on forms furnished for the purpose and in accordance with instructions posted in February of each year.

Munger Hall, a coöperative house, accommodating 111, is open to self-helping students of the three upper classes. For the year 1933-34 Norumbega Hall, accommodating 50 students, will also be used as a coöperative house. Twenty places in this house are reserved for freshmen.

The Personnel Bureau is actively engaged in bringing students into connection with work to be done for compensation within the College and in the neighborhood, but such employment, since it makes a distinct draft upon strength and time, is hardly to be advised for the freshman year.

Another source of pecuniary aid is the work of the Students' Aid Society established by the founders of Wellesley College and revived and incorporated by the alumnae of the College in April, 1916. Distributions are made both in gifts and in loans without interest. The existing funds are not sufficient for the work in behalf of students which the Society aims to do, and contributions of any amount will be gladly received by the treasurer of the Society, Miss Ruby Willis, care of Wellesley College.

I. SCHOLARSHIPS

ADAMS SCHOLARSHIP FUND of \$2,200, founded in 1907 by bequest of Adoniram J. Adams of Boston.

ALDRICH SCHOLARSHIP FUND of \$650, founded in 1931 by bequest of Alzora Aldrich of the class of 1896.

EDITH BAKER SCHOLARSHIP of \$7,800, founded in 1892 by bequest of Mrs. Eleanor J. W. Baker, in memory of her daughter.

WALTER BAKER MEMORIAL SCHOLARSHIP of \$7,800, founded in 1880 by Mrs. Eleanor J. W. Baker and increased by her bequest in 1892, in memory of her son.

DR. ALMA EMERSON BEALE SCHOLARSHIP FUND of \$3,300, founded in 1917 by bequest of Dr. Alma E. Beale of the class of 1891.

CHARLES BILL SCHOLARSHIP FUND of \$7,800, founded in 1898 by bequest of Charles Bill.

CHARLES B. BOTSFORD SCHOLARSHIP FUND of \$5,600, founded in 1920 by bequest of Lucy A. Botsford.

MARIAN KINNEY BROOKINGS SCHOLARSHIP FUND of \$5,000 founded in 1929 by Mrs. Selina M. Kinney, in memory of her daughter, of the class of 1904.

FLORENCE N. BROWN MEMORIAL SCHOLARSHIP of \$5,600, founded in 1880 by Mr. and Mrs Samuel N. Brown, Jr., in memory of their daughter.

EMILY GRACE BULL SCHOLARSHIP of \$20,000 founded in 1930 by bequest of Mrs. E. Grace Bull Morse of the class of 1899.

ARTHUR L. CARNS FUND of \$10,000, founded in 1931 by bequest of Arthur L. Carns.

MARY CASWELL MEMORIAL SCHOLARSHIP of \$5,404, founded in 1928 by Miss Caswell's faculty and alumnae friends.

AUGUSTUS R. CLARK MEMORIAL SCHOLARSHIP of \$5,600, founded in 1880 by Mr. and Mrs. A. N. Clark.

CLASS OF 1880 SCHOLARSHIP of \$937, founded in 1930 by the class of 1880.

CLASS OF 1884 SCHOLARSHIP FUND of \$5,510, founded in 1919 by the class, and increased in 1928 by bequest of Clara Brewster Potwin of the class of 1884.

CLASS OF 1889 MEMORIAL SCHOLARSHIP of \$1,100, founded in 1904 by the class, in memory of classmates who had died.

CLASS OF 1893 MEMORIAL SCHOLARSHIP FUND of \$5,600, founded in 1913 by the class, in memory of Laura Jones Miller and Carrie A. Mann.

ABBIE A. COBURN MEMORIAL SCHOLARSHIP of \$2,200, founded in 1982 by Mrs. Coburn.

CONNECTICUT SCHOLARSHIP of \$5,600, founded in 1912 by bequest of Mrs. Louise Frisbie.

MARGARET McCLEUNG COWAN FUND of \$1,100, founded in 1888 by Rev. and Mrs. P. D. Cowan, in memory of their daughter.

ELIZABETH AND SUSAN CUSHMAN FUND of \$23,610, founded in 1923 by bequest of Susan L. Cushman of the class of 1891.

NORMA LIEBERMAN DECKER SCHOLARSHIP FUND of \$5,487, founded in 1924 by Mrs. Emma Lieberman in memory of her daughter, Mrs. Decker, of the class of 1911.

DURANT MEMORIAL SCHOLARSHIP of \$5,600, founded in 1883 by the officers and students of Wellesley College, in honor of Henry F. Durant.

PAULINE A. DURANT SCHOLARSHIP of \$8,250, founded in 1880 by Mr. and Mrs. Henry F. Durant, and increased in 1919 by bequest of Mrs. Durant.

JOHN DWIGHT MEMORIAL SCHOLARSHIP of \$10,000, founded in 1930 by William Scott Lyon.

EMMELAR SCHOLARSHIP of \$5,600, founded in 1889 by the Class of 1891.

RUBY FRANCES HOWE FARWELL MEMORIAL SCHOLARSHIP of \$2,100, founded in 1926 by John W. Farwell, in memory of his wife.

ELIZABETH S. FISKE SCHOLARSHIP of \$5,600, founded in 1904 by bequest of Miss Fiske.

JOSEPH N. FISKE MEMORIAL SCHOLARSHIP of \$9,000, founded in 1892 by Mrs. Fiske.

RUFUS S. FROST SCHOLARSHIPS of \$1,100, and \$5,600, founded in 1880 by Mr. Frost.

HOWARD COGSWELL FURMAN SCHOLARSHIP of \$5,000, founded in 1928 by Mrs. Eleanor Van Allen Furman.

MARY ELIZABETH GERE SCHOLARSHIP FUND of \$5,600, founded in 1900 by bequest of Mary Elizabeth Gere.

JOSEPHINE KEENE GIFFORD SCHOLARSHIP of \$2,000, founded in 1932 by Mrs. Jarvis B. Keene, in memory of her daughter, of the class of 1917.

GOODWIN SCHOLARSHIP of \$5,600, founded in 1897 by Mrs. Hannah B. Goodwin, a former member of the Board of Trustees.

HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1896 and increased in 1901 by Helen Miller Gould Shepard in memory of her mother.

HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1899 and increased in 1901 by Helen Miller Gould Shepard.

HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1901 by Helen Miller Gould Shepard.

M. ELIZABETH GRAY SCHOLARSHIPS of \$11,200, founded in 1914 by bequest of William J. Gray.

GROVER SCHOLARSHIP of \$5,600, founded in 1878 by William O. Grover.

SARAH EVELYN HALL SCHOLARSHIP FUND of \$5,000, bequeathed in 1911 by Sarah Evelyn Hall of the class of 1879 as a scholarship fund subject to annuity, became available for scholarships in 1930.

CORA STICKNEY HARPER FUND of \$2,200, founded in 1915 by bequest of Mrs. Harper of the class of 1880.

EMILY P. HIDDEN SCHOLARSHIP FUND of \$2,200, founded in 1909 by bequest of Emily P. Hidden.

WINIFRED FRANCES HILL SCHOLARSHIP of \$20,000, founded in 1928 by bequest of Ida Parker Hill.

SARAH J. HOLBROOK SCHOLARSHIP of \$3,300, founded in 1898 by bequest of Sarah J. Holbrook.

EVELYN AND MARY ELIZABETH HOLMES SCHOLARSHIP FUND of \$6,000, founded in 1930 by bequest of Evelyn Holmes, sister of Mary Elizabeth Holmes of the class of 1892.

SARAH J. HOUGHTON MEMORIAL SCHOLARSHIP of \$6,700, founded in 1889, in memory of his wife, by William S. Houghton, a former member of the Board of Trustees.

ADA L. HOWARD SCHOLARSHIP of \$6,700, founded in 1895 in honor of Miss Howard, the first President of the College.

SARAH B. HYDE SCHOLARSHIP of \$2,200, founded in 1898 by bequest of Sarah B. Hyde.

JOHN AND JANE JACKSON FUND of \$1,000, founded in 1932 by Margaret H. Jackson.

ELIZA C. JEWETT SCHOLARSHIP of \$6,700, founded in 1894.

SOPHIE JEWETT MEMORIAL SCHOLARSHIP of \$1,100, founded in 1911 by Elsa D. James Garvin of the class of 1906 in memory of Sophie Jewett, instructor and associate professor of English Literature 1889-1909.

MILDRED KEIM FUND of \$11,200, founded in 1912 by Newton and Frances S. Keim in memory of their daughter Mildred, until her junior year a member of the class of 1912.

KATHARINE KNAPP SCHOLARSHIP of \$5,600, founded in 1920 by bequest of Katharine Knapp.

VINNIETTA JUNE LIBBEY SCHOLARSHIP of \$3,818, founded in 1932 by bequest of Vinnietta June Libbey.

GERTRUDE C. MUNGER SCHOLARSHIPS of \$10,587, founded in 1930 by gift of Miss Jessie Munger of the class of 1887.

ANNA S. NEWMAN MEMORIAL SCHOLARSHIP of \$2,100 founded in 1913, through gifts from former students.

NEW YORK WELLESLEY CLUB SCHOLARSHIP FUND of \$6,225, founded in 1930 by the New York Wellesley Club.

NORTHFIELD SEMINARY SCHOLARSHIP of \$5,600, founded in 1878.

ANNA PALEN SCHOLARSHIP of \$11,200, founded in 1902.

ELEANOR PILLSBURY MEMORIAL SCHOLARSHIP FUND of \$106,500, founded in 1926 by Mr. and Mrs. Cyrus H. K. Curtis, in memory of their daughter, Eleanor Pillsbury Pennell of the class of 1913.

PITTSBURGH WELLESLEY CLUB SCHOLARSHIP of \$1,500, founded in 1932 by the Pittsburgh Wellesley Club.

CATHERINE AYER RANSOM SCHOLARSHIP of \$1,100, founded in 1908 by bequest of Mrs. Ransom.

MAE RICE MEMORIAL SCHOLARSHIP FUND of \$1,100, founded in 1905 by the class of 1902, in memory of their classmate.

SAMUEL M. AND ANNA M. RICHARDSON FUND of \$81,000, founded in 1931 by bequest of Samuel M. Richardson.

ROLLINS SCHOLARSHIP of \$9,000, founded in 1903 by Augusta and Hannah H. Rollins, in memory of their parents.

HELEN J. SANBORN ALUMNAE SCHOLARSHIP FUND of \$11,200, founded in 1905 by Helen J. Sanborn of the class of 1884.

OLIVER N., MARY C., AND MARY SHANNON FUND of \$18,550, founded in 1916 by bequest of Mary Shannon.

HARRIET F. SMITH SCHOLARSHIP FUND of \$22,500, founded in 1881 by Henry Fowle Durant, in memory of his mother.

STOCKWELL MEMORIAL SCHOLARSHIP of \$2,000, founded in 1930 by bequest of Marie Louise Stockwell of the class of 1897.

STONE EDUCATIONAL FUND of \$28,100, founded in 1884 by Valeria G. Stone.

SWEATMAN SCHOLARSHIP of \$5,600, founded in 1880 by V. Clement Sweatman.

JESSIE GOFF TALCOTT FUND of \$535,535, founded in 1931 by bequest of Mrs. Elizabeth R. Stevens, who stipulated that one-half of the income be used for scholarships.

JULIA BALL THAYER SCHOLARSHIP of \$6,700, founded in 1907 by bequest of Mrs. Julia Ball Thayer.

JANE TOPLIFF MEMORIAL SCHOLARSHIP of \$6,700, founded in 1883 by Mrs. William S. Houghton, in memory of her mother.

ANN MORTON TOWLE MEMORIAL SCHOLARSHIP of \$5,600, founded in 1901 by bequest of George Francis Towle.

GEORGE WILLIAM TOWLE MEMORIAL SCHOLARSHIP FUND of \$7,550 founded in 1901 by bequest of George Francis Towle, in memory of his father.

MARIE LOUISE TUCK SCHOLARSHIP FUND of \$11,200, founded in 1919 by bequest of Miss Alice C. Tuck, in memory of her sister of the class of 1883.

UNION CHURCH SCHOLARSHIP of \$2,800, founded in 1880 by Mr. and Mrs. A. W. Stetson.

WESTON SCHOLARSHIP of \$5,600, founded in 1878 by David M. Weston.

JEANNIE L. WHITE SCHOLARSHIP of \$5,600, founded in 1886 by herself.

AMASA J. WHITING SCHOLARSHIP of \$2,600, founded in 1928 by bequest of Mrs. May C. W. Speare, in memory of her father.

ANNIE M. WOOD SCHOLARSHIP of \$11,200, founded in 1880 by her husband, Frank Wood, and increased by his bequest in 1915.

CAROLINE A. WOOD SCHOLARSHIP of \$5,600, the first scholarship of the college, founded in 1878 by Mrs. Caroline A. Wood, in memory of her husband, Caleb Wood.

WARREN MEAD WRIGHT SCHOLARSHIP FUND of \$10,000 founded in 1931, in memory of her son, by Mrs. George S. Wright of the class of 1881.

II. LOAN FUNDS

MCDONALD-ELLIS MEMORIAL of \$1,000, founded in 1908 by former students of the McDonald-Ellis School of Washington, D. C., in memory of the late principals of the school, and increased in 1926 by gift of Jessie C. McDonald of the class of 1888.

HELEN A. SHAFER LOAN FUND of \$1,000, founded in 1930 by bequest of Mary L. Sawyer of the class of 1888.

III. PRIZE FUNDS

The income of these funds is assigned for excellence in the subjects indicated.

BILLINGS PRIZE FUND (*Music*).

KATHARINE COMAN MEMORIAL PRIZE FUND (*Economics and Social History*).

DAVENPORT PRIZE FUND (*Oral Interpretation*).

ISABELLE EASTMAN FISK PRIZE FUND (*Public Speaking or Debating*).

SOPHIA HELEN FISK FUND (*Crew*).

MARY G. HILLMAN MATHEMATICAL SCHOLARSHIP (*Mathematics*).

MARY WHITE PETERSON PRIZE FUND (*Botany, Chemistry, Zoölogy*).

STIMSON MATHEMATICAL SCHOLARSHIP (*Mathematics*).

ETHEL FOLGER WILLIAMS MEMORIAL FUND (*German*).

PERSONNEL BUREAU

The staff of the Personnel Bureau consists of a Director, a Consultant, an Associate, an Appointment Secretary, and two assistants.

The Personnel Bureau is a central depository of the individual histories of the students as collected from the records of grades, from interviews, personality ratings by the faculty, psychological tests, health reports, and extra-curricular activities, and is maintained for furnishing material of value in educational and vocational advising. The Bureau is in active coöperation with other administrative offices by means of the Personnel Board. This is composed of the President of the College, the Deans, the Recorder, the Health Officer, the Resident Physician, the Professor of Psychology, and the Director of the Personnel Bureau. Meetings are held from time to time for the consideration of personnel questions and methods of procedure.

The Personnel Bureau, established by the Founders as the Teachers' Registry, includes also in its scope the placement of graduates in teaching and in business positions, and the work of the Committee on Vocational Information, which arranges lectures and discussions on occupations. Registration for placement is open to all who have taken courses in Wellesley College, and seniors are invited to register during their residence at the College. The Bureau maintains files, collects credentials, and is the source of information concerning the vocational equipment and experience of Wellesley women. The registration fee is \$2.00 for life membership, and no commission is charged for placement. The Bureau also registers undergraduates and alumnae for summer work, and has charge of undergraduate employment.

EQUIPMENT

HETTY H. R. GREEN HALL, the Administration Building, contains the offices of the President and other officers of administration, class and seminar rooms, the faculty assembly hall and offices of student organizations.

FOUNDERS HALL, a building for lecture rooms and department offices pertaining to instruction in the Liberal Arts, was opened for use in September, 1919. The hall was built from the Restoration Fund, secured for the College through trustees, faculty, alumnae, and other friends, and replaces in some part College Hall, the first and main building of the College, destroyed by fire, March 17, 1914. The building is dedicated as a memorial to the Founders of the College, Henry Fowle Durant and his wife, Pauline Adeline Durant.

THE LIBRARY of the College, endowed by Eben Norton Horsford, now numbers over 150,000 bound volumes, including the departmental libraries. The books in the General Library building form a collection chosen primarily for the use of students and instructors in the college courses in Literature and Languages, History, Economics, Sociology, Philosophy, Education, Religious History and certain of the sciences. The General Library is open on week days from 8:10 A.M. to 9:30 P.M., and on Sundays from 2:30 to 5:30 P.M. Students have direct access to the shelves. The Library is catalogued by author and subject entries, and the most recent and useful bibliographical aids are provided. Special effort is made to train students in methods of research.

The Library subscribes for more than six hundred American and foreign periodicals, including daily newspapers representing different sections of the United States, besides representative British and Continental dailies.

The Library has also many special collections of great interest and value to the student doing graduate or other research work. Among the most valuable of these are the Plimpton Collection, established by Mr. George A. Plimpton in memory of his wife, Frances Parsons Plimpton, of the class of 1884, which comprises over a thousand volumes of Italian books and manuscripts chiefly of the Renaissance; the Ruskin Collection, the gift of Mr. Charles E. Goodspeed; and the Collection of Early and Rare Editions of English Poetry given for the most part by Professor George Herbert Palmer.

The Brooks Memorial Room, opened in 1921, provides comfortable and beautiful surroundings with carefully selected books for leisure hours of reading.

The following departmental libraries are located in the buildings of the respective departments: Art, Astronomy, Botany, Chemistry, Hygiene, Music and Zoölogy.

FARNSWORTH ART MUSEUM.—The Farnsworth Art building was the gift of the late Isaac D. Farnsworth in 1889. It contains lecture rooms and exhibition galleries and is used by the Department of Art for its library, study rooms and studios.

Through the active interest of friends of the College, the Museum contains a representative selection of Egyptian minor arts, three examples of Greco-Buddhist stucco sculpture from Chinese Turkestan, the M. Day Kimball collection of antique sculpture; examples of early Italian painting; a valuable early 16th century tapestry; a unique collection of primitive Indian baskets; the beginnings of a collection of English and Colonial embroidery and ceramics; a few modern paintings, including an important early Corot, an attributed Morland, and the Cumæan Sibyl by Elihu Vedder.

Further information may be found in the Art Museum Bulletin.

MUSIC HALL AND BILLINGS HALL are large brick buildings, devoted to the department of Music. Music Hall contains offices, studios, and practice rooms equipped with thirty-seven new pianos of standard makes, a victrola and a Mason and Hamlin Ampico; also a large room, containing a two-manual pipe organ for the use of the organ pupils. Billings Hall, opened in 1904, contains the offices of the Professor of Music and the Assistant, the library and a class room for instruction in Musical Theory; also a concert room with a seating capacity of 330 people, containing a grand piano, a victrola, and the Grover organ,—a three-manual organ, rebuilt and modernized by the Estey Organ Company.

The Music Library includes a collection of manuscripts, about twenty-one hundred scores and two thousand reference books on musical subjects. The department owns about three hundred records for the victrola and fifty ampico rolls.

ALUMNAE HALL, the gift of the alumnae for a recreation centre, contains an auditorium seating 1570, a hall for college dances, a library, committee rooms for the use of alumnae and students, and full equipment for entertaining.

LABORATORIES AND SCIENTIFIC COLLECTIONS

ASTRONOMY.—The Whitin Observatory is a one-story building of brick, faced with white marble, situated on a small hill on the college grounds, and devoted entirely to the use of the department of Astronomy. It contains two rooms surmounted by rotating domes, twenty-five feet and twelve and one-half feet in diameter respectively; a transit room; a spectroscopic laboratory; a large, well-lighted room for elementary laboratory work; and another large room in which is kept the department library. In the larger dome room is mounted a twelve-inch Clark equatorial refracting telescope, which is provided with a filar micrometer, a polarizing photometer, and an attachment for photographing the moon. The smaller dome contains a six-inch Clark refractor, which is provided with an electric driving clock, a filar micrometer, a wedge photometer, and an Evershed protuberance spectroscope, and which may be used as a guiding telescope for a small photographic camera. Both domes are rotated by electric motors. In the transit room is mounted a Bamberg prismatic transit of three inches aperture. A four-inch telescope with objective by Browning is mounted in a south wall of the building, with the eye end inside and the optic axis parallel to the axis of the Earth; a plane mirror beneath the object-glass reflects into the latter the light of the object observed. In the spectroscopic laboratory are a Hale spectrohelioscope and a small Rowland concave grating spectroscope. The Observatory is supplied with two Howard sidereal clocks, a Bond mean-time chronometer, and a chronograph, any of which may be connected electrically through a switch-board with keys near the various telescopes; a Berger surveyor's transit; a 60-mm. Zeiss tripod telescope; two calculating machines; a Gaertner comparator for measuring spectrograms; a projecting lantern and about 1200 astronomical lantern slides; and a large collection of illustrative apparatus and photographs. A flat portion of the roof of the neighboring Sage Hall is fitted with illuminated desks for the use of astronomy students during naked-eye study of the sky.

Observatory House, the residence of the Director of the Observatory, is near by. Both the Observatory and the house, and also the greater part of the astronomical equipment, are the gift of the late Mrs. John C. Whitin.

BOTANY.—The department of Botany occupies a modern building (Sage Hall) with laboratories, research rooms, offices, etc., fully equipped for general and special work. Connecting with the building at three points is a range of modern greenhouses consisting of a large palm house and fourteen smaller houses.

The illustrative collections comprise an herbarium of some eighty thousand sheets, a working museum of more than five thousand specimens, and a large collection of lantern slides and microscopic mounts. The department has an "Outdoor Laboratory" for the use of certain courses. The greenhouses contribute to all the courses in the department, but are of especial importance in connection with the work in landscape gardening, physiology, ecology, taxonomy, and genetics. The native flora about Wellesley is easily accessible, furnishing a convenient field for both the taxonomist and ecologist. The Susan M. Hallowell Memorial Library is exceptionally well supplied with reference works and with current periodicals.

CHEMISTRY.—The department of Chemistry occupies a separate but tem-

porary building which contains two lecture rooms and the chemical library in addition to separate, well-equipped laboratories for work in general chemistry, qualitative and quantitative analysis, organic chemistry, food and physiological chemistry, and physical chemistry.

The tables in the lecture rooms are equipped with hot and cold water, gas, compressed air, and both direct and alternating current. There is also available for use in lecture demonstration a comprehensive group of apparatus for special experiments. A Bausch and Lomb Balopticon for both lantern slide and opaque projection has recently been added as an important adjunct to the lecture equipment.

An electric still keeps the analytical laboratories on both floors supplied with distilled water. The work in qualitative analysis has been greatly facilitated by the installation of a tank of liquid hydrogen sulphide outside the building. From this tank the gas is piped to the hoods in both the qualitative and quantitative laboratories. The quantitative laboratory is the most recent addition to the building. It is fitted with metal desks with alberene tops. These desks were especially designed for the particular apparatus used in such work.

GEOLOGY AND GEOGRAPHY.—The department of Geology and Geography has a large and well-equipped lecture hall, a small lecture room, and two laboratories. Both lecture rooms are equipped with projecting lanterns.

The museum and laboratory material of the department includes a typical collection of dynamical and structural geology specimens, systematic mineralogical and petrographic collections, and a wide variety of fossils. These collections are all the generous gifts of colleges, museums, and friends. The department has two noteworthy collections. The first is the Horace I. Johnson Mineral Collection, which consists of five thousand valuable and beautiful mineral specimens, including many precious metals and stones. This collection is the gift of the late Mr. John Merton, and was presented through the Class of 1915 by the courtesy of Miss M. Helen Merton. The second is the Reverend David F. Pierce Collection, which includes a complete and rare collection of building and ornamental stones and many precious and semi-precious minerals. This collection is the gift of Professor Frederick E. Pierce of Yale, Miss Anna H. Pierce, and Miss Mary E. Pierce of the Class of 1898.

The maps of the department include many large scale wall maps, maps of the United States Coast and Geodetic Survey, and complete files of geologic folios and topographic maps of the United States Geologic Survey. In addition several thousand topographic maps and folios are arranged in collections for individual use in the laboratory. The department has an excellent assortment of lantern slides which illustrate many phases of geology and geography.

HYGIENE AND PHYSICAL EDUCATION.—The department of Hygiene and Physical Education occupies Mary Hemenway Hall on the western border of the college grounds. The equipment of the department is designed for the application of modern science to the maintenance and promotion of health and for education through motor activity.

Mary Hemenway Hall includes a large well-lighted gymnasium with ample bathing facilities, administrative offices, class rooms, and laboratories for anatomy, physiology, hygiene, anthropometry, corrective exercise and research.

Unusual facilities for outdoor activities are provided as follows: one four-

target archery range, six volley ball, four basket ball, and twenty-two tennis courts; one baseball diamond, two hockey and lacrosse fields, one 100-yard straight-away track and jumping pits; and a nine-hole golf course. Bridle paths are available for horseback riding. Close by, on Lake Waban, are two boat-houses, with canoes, eight-oared shells, and motor boat for coaching and safety patrol. The Lake provides opportunity for swimming in the spring and fall terms, and for skating in the winter. The campus is well adapted to skiing, snowshoeing, and coasting.

The department library in Mary Hemenway Hall contains 4,100 volumes, a collection of valuable pamphlets, and regularly receives 50 periodicals dealing with matters related to hygiene and physical education.

MATHEMATICS.—The department has a collection of 45 Brill-Schilling models of surfaces, chiefly of the second and third orders, and a lantern for use with large thread models in the study of skew curves, beside several simple models, including some made by its members. There is a fine transit for the use of classes in Trigonometry, and a computing machine, used in the classes in Statistics.

PHYSICS.—The department of Physics occupies as temporary quarters three floors in an old building. There are two lecture rooms, fitted with direct and alternating current, gas and compressed air, and separate laboratories for general physics, electricity and light. In connection with the advanced laboratories there are dark rooms and several small rooms which can be used for research or for individual experiments requiring special conditions. The equipment is thoroughly modern. The lecture apparatus is sufficient to permit a wide range of experiments. In the elementary laboratory, duplication of apparatus permits a close coordination between lectures and laboratory exercises. The equipment for advanced laboratory work is especially strong in electrical and optical apparatus. It includes an unusual equipment for experiments in electric oscillations; a Hilger quartz spectrograph and constant deviation spectrometer; a Weiss electromagnet, a Bragg X-ray spectrometer, etc.

There is connected with the laboratory a machine shop in charge of a mechanician who makes and repairs apparatus as needed.

PSYCHOLOGY.—The laboratory is housed in a building which is located in a quiet spot and which contains sixteen rooms with good electrical connections. Two dark rooms and a workshop are included. The equipment is adequate for demonstration, for general experimental work, and for many lines of research.

ZOOLOGY AND PHYSIOLOGY.—The department of Zoölogy and Physiology occupies a new building (Sage Hall) opened in the autumn of 1931, containing lecture rooms, laboratories, research rooms, a library—a memorial to Caroline B. Thompson,—a museum, and a vivarium, which includes mammal rooms and runways and a large aquarium room containing frog and turtle pools, tanks for salt and fresh water forms and for tropical fishes. The new building, fully equipped with modern apparatus, enables the department, for the first time since the fire of 1914, to conduct all its work under one roof; to emphasize, through the vivarium, the importance of the study of living forms; and to display museum material which has long been in storage. This illustrative material includes a collection of New England birds; an interesting collection of birds and bird-skins from Peru, the gift of Mrs. Graham Ker; and a valuable collection of shells, the gift of Mrs. Rebecca S. Beaman of Cambridge.

DEGREES CONFERRED IN 1933

MASTER OF ARTS

THELMA GORFINKLE ALPER (B.A., Wellesley College, 1929), *Psychology and Education.*
 HELEN STUART BAGENSTOSE (B.A., Wellesley College, 1931), *Psychology and Education.*
 ADELAIDE DOROTHY BATZ (B.S. in Education, University of Nebraska, 1930), *English Literature.*
 RUTH EDNA BELL (B.A., Oberlin College, 1931), *Zoölogy and Physiology.*
 PERSIS BULLARD (B.A., Wellesley College, 1932), *Physics.*
 MARGARET MILLER BURKE (B.A., Mount Holyoke College, 1931), *Chemistry and Physics.*
 MILDRED EVELYN FROSTHOLM (B.A., Wellesley College, 1926), *Spanish.*
 HELENA MILDRED GLENN (B.A., Wheaton College, 1931), *English Literature.*
 ALFARATA BOWDOIN HILTON (B.A., Wellesley College, 1922), *English Literature.*
 BARBARA HUNT (B.S., Connecticut College for Women, 1929), *Botany.*
 FLORICE ANN KING (B.A., Mount Holyoke College, 1931), *Zoölogy and Physiology.*
 MILDRED LILLIAN KUREPKAT (B.A., Oberlin College, 1931), *Chemistry and Physiology.*
 ELEANOR LEACH (B.A., Wellesley College, 1927), *Zoölogy.*
 MARIE CHRISTIANSEN MENGERS (B.A., University of Nebraska, 1928), *French.*
 ELEANOR PARKHURST (B.A., Wellesley College, 1931), *Economics and Sociology.*
 ELEANOR CARR PHILLIPS (B.A., Wellesley College, 1930), *Psychology and Education.*
 MARGARET OZELLE PUCKETTE (B.A., Vanderbilt University, 1929), *Latin.*
 ANGELA GERRY ROBINSON (B.A., Radcliffe College, 1932), *History.*
 MARY ELIZA SOUDER ROSER (B.A., Wellesley College, 1929), *Chemistry.*
 OLGA STEINER, *English Literature and German.*
 GLADYS ANTHONY WHITE (B.A., Wellesley College, 1911), *English Literature.*
 JEAN WILLCUTT (B.A., Wellesley College, 1932), *Latin.*
 MARGARET ANN LINFORTH WILLGOOSE (B.A., Wellesley College, 1931), *History and Economics.*

MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION

REBECCA RUTH BAIRD (B.A., Goucher College, 1931).
 DOROTHY ELIZABETH DUNNING (B.A., Ohio Wesleyan University, 1932).
 INGE VON LEWINSKI (B.S., The George Washington University, 1932).
 VIRGINIA MYNARD (B.A., University of California, 1931).
 CONSTANCE NELSON (B.A., Wellesley College, 1932).
 CONSTANCE LINCOLN NEWBURY (B.A., Wellesley College, 1932).
 JOSEPHINE ELIZABETH RENSHAW (B.S., University of Wisconsin, 1932).
 ESTHER LOUISE SPARGO (B.A., Boston University, 1928).
 CHARLOTTE MATILDA THOMPSON (B.A., Wheaton College, 1931).

BACHELOR OF ARTS

PRISCILLA ADAMS
 AUDRA JULIA ALBRECHT
 BARBARA ALDEN
 ROSAMOND LAURA ALLIGER
 MARY ELIZABETH ANDERSON
 MARY LOUISE ANDERSON
 DORA ANGUS
 MARY ELLIOTT ATKINSON
 JEAN TRUMBULL ATWATER
 MARGARET SKELTON ATWOOD
 FRANCES CATHERINE AVANZINO
 FRANCES MARION BACHMAN
 BARBARA BARROW
 ERNESTINE GRACE BEEBOWER
 GRACE CLAIRE BEEZLEY
 CATHARINE MARY BERGEN
 ELINOR BEST
 MARIAN FISCHER BEURY
 EMILY HUNTINGTON BIDWELL
 KATHERINE ALICE BIGLER
 ELIZABETH BLAIR
 ESTELLA JANET BLAISDELL
 KATHERINE BOGART
 NATALIE VIRGINIA BOLTON
 ANNA RUTH BOVARNICK
 MARTHA SEAVER BOWDITCH
 LOROL RODEN BOWRON
 ELIZABETH MONTAGUE BOWSER
 PHYLLIS GRAEME BRADBURY
 HELEN BRANDRIFT
 ELISABETH TAFT BRASTOW
 ANNE ESBENSHADE BRENEMAN
 EDNA FLORENCE BRESLAW
 LEONTINE BRIGGS
 MARGARET BROOME
 ALICE KATHERINE BROWN
 VIRGINIA MABEL BROWN
 MARGARET CHRISTINE BUEHN
 MARY CLARKSON BURDETT
 JOSEPHINE BURRAS
 MARY SCHINDEL BUTZ
 RUTE MARGARET CAMPBELL
 MARY VIRGINIA CARLIN
 GODWIN TREZEVANT CARROLL
 RUTH CHAPMAN
 ELIZABETH HODGES CLARK
 PRISCILLA HARDESTY CLEAVER
 ELINEORE KALLET COHEN
 ALICE LOUISE COLLINS
 ELIZABETH CONGLETON
 REBECCA CONNALLY
 DORIS AUGUSTA COPELAND
 LUCY ANN COPELAND
 BARBARA ASENATH CORCORAN
 CATHERINE HOPE COURTEMAY
 ELODIE GRACE COURTER
 CHARLOTTE ELIZABETH CRAWFORD
 ELIZABETH ELLIS CREED
 ELIZABETH LANING CULBERTSON
 DORA CUMMINGS
 ELIZABETH MALEY CUTSINGER
 MARION JANET DAKIN
 BARBARA DAMON
 EVANGELINE CHRISMAN DAVEY
 JO DAY
 ELIZABETH SIMPSON DEACON
 KATHARINE AUGUSTA DEAR

RHODA DEUEL
 FRANCES JUANITA DEXTER
 SARAH Tooker DICKSON
 RUTH ROSEMARY DE DIEMAR
 MARY JANE DIETZ
 DORA MOON DIXON
 ELIZABETH STRONG DOUGLASS
 VIRGINIA ELIZABETH DRAKE
 HELEN DU BOIS
 JENNIE RANDALL DYKE
 CORNELIA ESTHER EDWARDS
 ISABEL SARA EHRLICH
 CAROLINE FREDERICKA EICHORN
 MARGARET PENFOLD ELY
 CARMEN FAGERNES
 EDYTHE FAIRBANKS
 MILDRED JEAN FALENDER
 FRANCES FURNISS FERNALD
 MARIAN ELIZABETH FIDLER
 DOROTHY MAY FIELD
 ELSIE FINKELSTEIN
 JOAN FISHER
 ANNE FITZWILLIAMS
 VIVIAN DOROTHY FLAMHAFT
 GRACE WEBSTER FLETCHER
 IRENE FRANCES FOGG
 HELEN MARGARET FRANCE
 JANE WRIGHT FREELAND
 PHYLLIS ROSALIA FRIEDMAN
 MAXINE FRIEDMANN
 DOROTHY MAYMODE FULLER
 MARY GOODE GARBER
 HELEN STEVENSON GARDINER
 ELIZABETH GATCHELL
 FRANCES MERRILL GILMORE
 MILDRED SYBIL GILMORE
 MARGARET SHERMAN GIORCHINO
 JEAN GLASSCOCK
 AUDREY VIRGINIA GLUNTS
 MARY ELIZABETH GOGGANS
 ALICE BROOME GORTON
 HELEN GRADY
 BARBARA BARNEFIELD GREGG
 FRANCES BARNEFIELD GREGG
 VIRGINIA MARY GRIMES
 MARY JANE GRISWOLD
 FLORENCE MIRIAM GROSS
 JANE GUGGENHEIMER
 DORIS DOLPHINE GUNDLACH
 TERRY HAMLIN
 LOUISE MARY HAMMELL
 MARY ELAINE HANLEY
 CAROL HANSON
 CHARLOTTE BEVERLY HANSON
 DOROTHY HARRIS
 LURLEANE ELEANOR HARRISS
 EVELYN LOUISE HART
 MARY ELIZABETH HARTNETT
 MARION LUCILLE HASKELL
 HARRIET HAYNES
 MARCIA FLAGG HEALD
 ELEANOR HERBERT
 HELENE FRANCES HIRSCH
 LOIS HOLLANDER
 MADELYN ALICE HOUGHTON
 EMILY HOUK
 LINDA HELEN HOUSTON

DEGREES CONFERRED

ELIZABETH THOMAS HOWE
 JENNIE MARGARET HOWELL
 MARY MONTAGUE HOWLAND
 ELIZABETH SNIFFEN HUBBARD
 HARRIET DUFRESNE HUDSON
 MARGARET FRANCES HULL
 MARGERY HUNTER
 MARY LOUISE HUNTER
 HILDA EMILY HUTSEL
 MARTHA IRVING
 FANNIE ELIZABETH JACKSON
 LILLIAN JACOB
 ELIZABETH JOHNSON
 KATHLEEN JOHNSON
 CATHERINE VIVIAN JOHTZ
 FRANCES GWENLLIAN JONES
 CHARLOTTE JUER
 ELENA BLANCHE KAHN
 MILDRED HORTENSE KAHN
 MARGARET CAMPBELL KEISLER
 BARBARA KELLY
 JANE LANSING KEMPER
 SARAH HELENA KENNISTON
 DOROTHY IRENE KIENTZ
 ELIZABETH KINGSLY
 LUCY ALEXANDER KIRKLAND
 ESTHER ADELLE KLEIN
 HELEN KLINTRUP
 VIOLET LOUISE KOVACS
 KAROLYN MILLER KRAKOSKI
 OLGA KATHERINE KREEB
 GERTRUDE VIVIEN LAKSON
 ARECE CORINNE LAMBERT
 CATHARINE CAMPBELL LAMBETH
 SARA LOUISE LANDERS
 BERENICE BEVERLY LAPIN
 KATHRYN ADELAIDE LAWTON
 HUAN-CHIEN LEUNG
 LILLIAN LIBMAN
 RENA LIPETZ
 MIRIAM IRENE LONDY
 PERSIS MARIAN LONG
 FRANCES ELIZABETH LOOMIS
 JANE TALMADGE LOOMIS
 ENID STANLEA LUCAS
 MARJORIE LUFSKIN
 KATHLEEN LYONS
 MARION JANE McDONALD
 MARY ELIZABETH MACDONALD
 MARY ELIZABETH MACDONALD
 MARGARET AGNES McGrath
 JANICE MACKENZIE
 HARRIET Frazier MacKINNEY
 FRANCES LEE MADDOX
 LOUISE FRENCH MAGENAU
 JANE ELIZABETH MAPES
 ELIZABETH BUTTERWORTH MARREN
 LOÏS MARTIN
 DOROTHY KATHRYN MATHER
 HELEN VIRGINIA MAXWELL
 LUCIE ELIZABETH MEADER
 HELEN SUSAN MEINZER
 ETHEL FAITH MELLIN
 ELIZABETH McCormick MILLER
 KATHRYN MARY MILLER
 MARY JANE MILLS
 CLARA ELISABETH MINSTERMAN
 ELLEN MARIA MITCHELL
 LOUISITA ISABELLA MOFFETT
 HELEN ELIZABETH MONROE
 JOSEPHINE IRENE MOONEY

BEATRICE JEAN MOORE
 BERYL MAUD MOORE
 ELEANOR MARY MOORE
 CHARLOTTE KATHERINE MOREHOUSE
 ETHEL DORIS MOSS
 JANET MUDGE
 RUTH MUDGE
 JULIA JOSEPHINE MULCAHY
 MARION RUTH MULLISON
 JUSTINE FRANKE MURRAY
 MARGARET LOUISE MYERS
 LOIS ELLA NELSON
 MARION RUTH NELSON
 ELIZABETH SISE NEWICK
 JEANNE NICOLAS
 MARION FRIEDA NOEDING
 SOPHIA WALLACE NOLAN
 HOPE NORMAN
 MARIANNA NOYES
 GRACE URSULA OBERMANNS
 DOROTHEA MORSE OSWALD
 HELEN WINIFRED PARKER
 MARGARET PARKER
 RUTH MAY PARKER
 GRACE ELIZABETH PARLIN
 FRANCES ELIZABETH PEITZSCH
 DOROTHY JANE PERKINS
 MARIAN LUCINDA PFAFF
 MARY ELEANOR POLAND
 ELIZABETH CHRISTINE PORTER
 PATRICIA POTTER
 AMABEL LEE PRICE
 DOROTHY HAMILTON QUIRI
 MARIAN JOSEPHINE RAJISH
 JEAN MARY RANKIN
 HELEN PENNINGTON RANNEY
 RUTH FLORENCE RAU
 LOUISE EMMA REBMAN
 MARY ALICE REED
 MOLLY EVELYN REED
 ELIZABETH AGNES REID
 DOROTHY MAY REINMAN
 CAROLYN EASTMAN REMINGTON
 ELSBETH JANE REUTER
 EDYTRE JULIA RHODES
 GWENYTH MORGAN RHOME
 MARJORIE CHARLOTTE RICE
 ELIZABETH RICHARDSON
 CATHARINE BOYD RISK
 SOPHIE BEATRICE ROBINSON
 VALESKA RUTH ROZISKEY
 MARY ELIZABETH RUGG
 DOROTHY MAY RURODE
 PRISCILLA BARTLETT SAFFORD
 ELIZABETH KOONTZ SANFORD
 FLORENCE SCHIFFENHAUS
 MARGARET SCHULLER
 ARLENE MARGARET SCOTT
 HELEN HARDY SEATON
 EVELYN RITA SEGAL
 ELINOR JOAN ADELE SEIDEL
 MARGARET ERNESTINE SEYDELL
 FRANCES REBECCA SHARAF
 REBECCA SHAW
 FLORA HOWARD SHAWAN
 ROSALIE TALIAFERRO SHERMAN
 VIRGINIA SHOEMAKER
 JANET SMITH
 SARAH BELL SMITH
 ISABEL SORZANO
 MARY STARKS

RUTH DYSART STATER
 ANNA MARIE STEINBRECHER
 RUTH STEVENSON
 GERTRUDE CALDWELL STEWART
 ELIZABETH BAILEY STONE
 ESTHER RODMAN STONE
 HELEN ELIZABETH STORTS
 VIRGINIA STREET
 SARAH RUTLEDGE SUPPLEE
 ALICE ELEANOR TAYLOR
 HARRIET TAYLOR
 RUTH CAROLYN TERRY
 RUTH THOMAS
 MARY ETHEL THYNE
 MILDRED PATRICIA TOMLINSON
 MARJORIE KENDRICK TOOKER
 BARBARA TOWNSEND
 FRANCES CHARLOTTE TOWNSEND
 FLORENCE VERNON VENABLE
 ELIZABETH MATHER VERMILLION
 ELIZABETH WALKER
 MARTHA CONSTANCE WALL
 HELEN MARGARET WALLACE

ELEANOR MARIA ROSE WALSH
 MARY WARD
 MURIEL GRACE WARNE
 ELEANOR DRURY WATERS
 JOSEPHINE WATTLEY
 DOROTHEA WEST
 PAULINE WALLACE WESTCOTT
 WILHELMINA EMILY WETMORE
 MARGARET LOUISE WILDANGER
 JEAN LOUISE WILLIAMS
 MARY ELIZABETH WILLIAMS
 MARTHA HELEN WILLIAMSON
 MARY TEWKSBURY WILSON
 GENEVIEVE ROSE WINANS
 EDITH BLANCHARD WITHERELL
 BEULAH WITTSTEIN
 MARY WORK
 ELIZABETH ROBERTS WRIGGINS
 ELIZABETH HERVEY WYCKOFF
 MARJORIE HARRIETTE YOUNG
 MARTHA HURLBUT YOUNG
 LOUISE JEAN ZIEGLER
 MARY ELIZABETH ZURBRIGG

CERTIFICATE OF THE DEPARTMENT OF HYGIENE AND PHYSICAL EDUCATION

DOROTHY JANE ADAIR (B.A., Wellesley College, 1932).
 REBECCA RUTH BAIRD (B.A., Goucher College, 1931).
 YUEH MEI CHEN (B.A., Gindling College, 1930).
 VIRGINIA PATRICIA CLEARY (B.A., Boston University, 1931).
 CAROLINE DENSMORE (B.A., Wellesley College, 1932).
 MARY GARDNER FESSENDER (B.A., Pembroke College in Brown University, 1929).
 ALICE EWING GOBEE (B.A., Wellesley College, 1931).
 ISABELLE MARIE KIRCH (B.A., Wellesley College, 1932).
 VIRGINIA MYNARD (B.A., University of California, 1931).
 CONSTANCE NELSON (B.A., Wellesley College, 1932).
 CONSTANCE LINCOLN NEWBURY (B.A., Wellesley College, 1932).
 RHODA REYNOLDS (B.A., Wellesley College, 1932).
 CHARLOTTE MATILDA THOMPSON (B.A., Wheaton College, 1931).

HONORS IN SUBJECTS

MARY LOUISE ANDERSON

Charles Kingsley

FRANCES MARION BACHMAN

Price-Controlled Versus Planned Economy

NATALIE VIRGINIA BOLTON

Public Utility Problems of Interest to the Investor

MARION JANET DAKIN

A Study of Work Curves for Short Periods

LILLIAN LIBMAN

The Religion of Aeschylus

BEATRICE JEAN MOORE

A Sociological Study of Bailey Island, Maine

DOROTHY JANE PERKINS

A Study of Nitrosophenols

RUTH THOMAS

Richard Hakluyt as a Spokesman for a Greater England

ELIZABETH ROBERTS WRIGGINS

An Economic and Statistical Analysis of Retailing

MARJORIE HARRIETTE YOUNG

England's Suspension of the Gold Standard

PRIZES

BILLINGS PRIZE

For conspicuous excellence in Theoretical and Practical Music

SARAH RUTLEDGE SUPPLEE

KATHARINE COMAN MEMORIAL PRIZE

For Economic and Social History

KATHARINE AUGUSTA DEAR

Subject: *Public Opinion on the Currency Question, 1870-1900*

DAVENPORT PRIZE

For excellence in Speech

CATHERINE VIVIAN JOHNTZ

ERASMUS HISTORY PRIZE

JANE GUGGENHEIMER

Subject: *Martin Bucer in England*

JOHN MASEFIELD PRIZE

For excellence in Prose Writing

CATHARINE CAMPBELL LAMBETH

MARY WHITE PETERSON PRIZE IN BOTANY

HELEN BRANDRIFF

LEWIS ATTERBURY STIMSON PRIZE IN MATHEMATICS

DOROTHY IRENE KIENTZ

WOODROW WILSON PRIZE IN MODERN POLITICS

FRANCES MARION BACHMAN

Subject: *Price-Controlled vs. Planned Economy*

SCHOLARSHIPS AND FELLOWSHIPS

GRADUATE SCHOLARSHIPS AWARDED TO MEMBERS OF THE
SENIOR CLASS

GERTRUDE VIVIEN LAKSON

Loïs MARTIN

HORTON-HALLOWELL FELLOWSHIP

Awarded for the year 1933-34 to FRANCES SCHOULER MILLER, B.A., Wellesley College, 1930; candidate for the degree of Ph.D. at Johns Hopkins University

Subject: *English Literature*

ALICE FREEMAN PALMER FELLOWSHIP

Awarded for the year 1933-34 to ANNE ELIZABETH LITZINGER, B.A., 1931, M.A., 1933, Mount Holyoke College; candidate for the degree of Ph.D. at Yale University

Subject: *Chemistry*

FANNY BULLOCK WORKMAN SCHOLARSHIP

Awarded for the year 1933-34 to VIRGINIA CORWIN, B.A., Wellesley College, 1923; B.D., Union Theological Seminary, 1929; candidate for the degree of Ph.D. at Yale University

Subject: *Biblical History*

HONOR SCHOLARSHIPS

Honor Scholarships (without stipend) have been established by the College for the purpose of giving recognition to a high degree of excellence in academic work. These honors fall into two classes: students in the first, or higher class, are termed Durant Scholars; students in the second class are termed Wellesley College Scholars.

These honors are awarded to seniors on the basis of two and one-half years' work, to juniors on the basis of one and one-half years' work. The standard in each case is absolute, not competitive.

DURANT SCHOLARS

APPOINTED IN 1933

Class of 1933

FRANCES MARION BACHMAN
ERNESTINE GRACE BEEBOWER
ANNA RUTH BOVARNICK
ELISABETH TAFT BRASTOW
ELIZABETH MALEY CUTSINGER
JANE GUGGENHEIMER
CAROL HANSON

MARGARET FRANCES HULL
ESTHER ADELLE KLEIN
GERTRUDE VIVIEN LAKSON
LOIS MARTIN
DOROTHY JANE PERKINS
ELIZABETH ROBERTS WRIGGINS
MARY ELIZABETH ZURBRIGG

Class of 1934

DOROTHY ELIZABETH AVERY
BERNICE BERNSTEIN
BETTYE PRISCILLA BOESHAAR
DELPHINE HARRIET CLARKE
MARY JANE HAYES
MARIAN ADRIANCE JOHNSON
CONSTANCE MURDOCH

ELIZABETH KING NEILL
CAROLYN ALICE PALMER
MARY VIRGINIA RICE
BARBARA SMITH
GERALDINE ALICE VERGE
MABEL WILLIAMS

WELLESLEY COLLEGE SCHOLARS

APPOINTED IN 1933

Class of 1933

PRISCILLA ADAMS
MARY LOUISE ANDERSON
JEAN TRUMMELL ATWATER
ELINOR BEST
MARTHA SEAVIER BOWDITCH
ELIZABETH MONTAGUE BOWSER
HELEN BRANDRIFF
MARY VIRGINIA CARLIN
ALICE LOUISE COLLINS
EVANGELINE CHRISMAN DAVEY
RUTH ROSEMARY DE DIEMAR
MARY JANE DIETZ
ISABEL SARA EHRLICH
DOROTHY MAY FIELD
VIVIAN DOROTHY FLAMHAFT
GRACE WEBSTER FLETCHER
DOROTHY MAYMODE FULLER
MARY GOODE GARBER
MARGARET SHERMAN GIORCHINO
JEAN GLASSCOCK
AUDREY VIRGINIA GLUNTS

CHARLOTTE BEVERLY HANSON
MARIA FLAGG HEALD
LOIS HOLLANDER
OLGA KATHERINE KREEB
SARA LOUISE LANDERS
BERENICE BEVERLY LAPIN
LILLIAN LIBMAN
MIRIAM IRENE LONDY
ENID STANLEA LUCAS
MARY ELIZABETH MACDONALD
ELIZABETH BUTTERWORTH MARREN
HELEN VIRGINIA MAXWELL
HELEN SUSAN MEINZER
ETHEL FAITH MELLEN
ELIZABETH MCCORMICK MILLER
ELEANOR MARY MOORE
JUSTINE FRANKE MURRAY
HELEN WINIFRED PARKER
DOROTHY MAY REINMAN
GWENYTH MORGAN RHOME
HELEN HARDT SEATON

HONOR SCHOLARSHIPS

ELINOR JOAN ADELE SEIDEL
 MARGARET ERNESTINE SEYDELL
 FRANCES REBECCA SHARAF
 REBECCA SHAW
 RUTH THOMAS
 BARBARA TOWNSEND

JEAN LOUISE WILLIAMS
 MARY ELIZABETH WILLIAMS
 MARY TEWKSBURY WILSON
 ELIZABETH HERVEY WYCKOFF
 MARJORIE HARRIETTE YOUNG

Class of 1934

ELIZABETH LOGAN ADAMS
 CAROLINE-MARIA AVERILL
 ALICE BAKER
 PHEBE LYNDE BALLOU
 THELMA MAE BLACKMORE
 OLIVE LYNDA BOWN
 CAROLYN CASPER
 MARY DEAN CLEMENT
 MAY ROSE CLYMER
 Ida ADELAIDE DEAR
 MARTHA MARGARET DOTY
 EDITH LEVY ELSAS
 HARRIET FURNISS FERNALD
 LUCILE ELISE FLACCUS
 VIOLET GANG
 ETHEL BELLE GLASS
 JESSAMINE ROBERTS GOERNER
 RUTH ISOBEL GRAY
 ELISABETH HATHAWAY

FRANCES HARRIET HOOD
 IRÈNE JARDÉ
 KATE NATALIE LEVINE
 MARY JOSEPHINE LINCH
 FLORENCE ELIZABETH LUDLUM
 MARY LETITIA MILLER
 JEAN PATTERSON MORTON
 BETTY JANE SHEAFFER
 PANSY SIEGEL
 ELIZABETH STRATTON SMITH
 JULIA ANN SNEAD
 VIRGINIA PARKER STEVENSON
 HELEN DOROTHY STIX
 HARRIET HEADLEY SUMMERS
 JANE ANN TAYLOR
 MARGARET VIRGINIA TORRANCE
 MARY FRANCES VALDINA
 MARY EMELINE WHITE

FORMS OF BEQUEST

I give and bequeath to Wellesley College, a corporation established by law, in the Town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of dollars, to be safely invested by it and called the Endowment Fund. The interest shall be applied to the payment of the salaries of teachers in Wellesley College, as the Trustees shall deem expedient.

I give and bequeath to Wellesley College, a corporation established by law, in the Town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of dollars, to be appropriated by the Trustees for the benefit of the College in such manner as they shall think will be most useful.

I give and bequeath to Wellesley College, a corporation established by law, in the Town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of dollars, to be safely invested by it, and called the Scholarship Fund. The interest of this fund shall be applied to the aid of deserving students in Wellesley College.

SUMMARY OF STUDENTS

Resident candidates for the M.A. degree	34
Resident candidates for the M.S. degree in H. & P. E.	11
Resident candidates for the Certificate in H. & P. E.	11
 Candidates for the B.A. degree:	
Seniors	301
Juniors	328
Sophomores	370
Freshmen	406
Unclassified	37
	— 1,442
Non-candidates for degrees	18
	— 1,516
Duplicates	11
Total registration November, 1933	1,505
Junior in France	1
Juniors in Germany	3
Junior in Spain	1
 United States:	
Alabama	3
Arizona	1
California	5
Colorado	2
Connecticut	99
Delaware	1
District of Columbia	16
Florida	7
Georgia	6
Idaho	1
Illinois	47
Indiana	14
Iowa	6
Kansas	4
Kentucky	15
Louisiana	3
Maine	30
Maryland	11
Massachusetts	354
Michigan	28
Minnesota	14
Missouri	27
Montana	3
Nebraska	2
New Hampshire	19
New Jersey	109
New York	352
North Carolina	4
Ohio	66
Oklahoma	3
Pennsylvania	124
Rhode Island	28
South Carolina	2
Tennessee	14
Texas	12
Utah	1
Vermont	9
Virginia	15
Washington	6
West Virginia	6
Wisconsin	10
Wyoming	2
Canal Zone	2
Porto Rico	2
 Other Countries:	
Belgium	3
Canada	5
Chile	1
China	2
Czechoslovakia	1
France	1
Greece	2
Japan	1
Mexico	2
Spain	2

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